NAVAIR 01-40AV-1TB

TACTICAL POCKET GUIDE

A-4 / TA-4 AIRCRAFT

PREPARED UNDER THE DIRECTION OF COMMANDER, OPERATIONAL TEST AND EVALUATION FORCE

APPROVED BY THE CHIEF OF NAVAL OPERATIONS

1 FEBRUARY 1976

STORE WEIGHTS 1

JETTISON LIMITATIONS 2

GP/LG BOMBS
CLUSTER BOMBS 3
FIRE BOMBS

CMPTR RELEASES
CP-741/A 4
GUNSIGHT RELEASES

SIGHT ANGLES 5

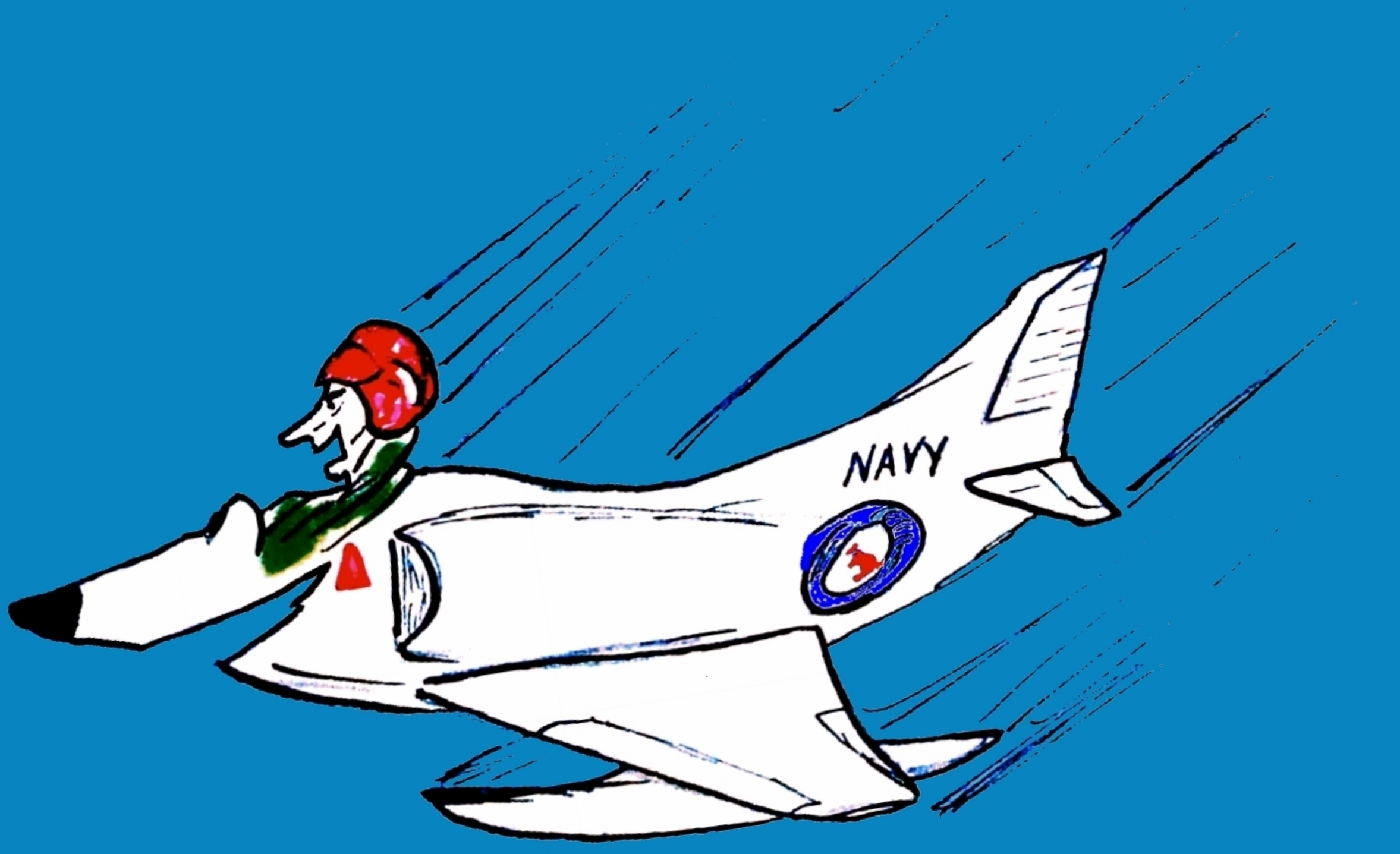
ROCKETS/GUNS 6

FLARES 7

SHRIKE
WALLEYE 8

SIDEWINDER 9

Inside Front Cover
A-4 / TA-4 Tactical Pocket Guide



TACTICAL POCKET GUIDE

A-4/TA-4 AIRCRAFT

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1 FEBRUARY 1976

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TABLE OF CONTENTS

	Page
STORE WEIGHTS	3
JETTISON LIMITATIONS	5
GP/LG BOMBS—CLUSTER BOMBS—FIRE BOMBS	7
Preflight/Inflight Checks	11
COMPUTER RELEASE—CP-741/A	15
Computer	15
Controls	15
Radar Controls	15
Delivery	15
GUNSIGHT RELEASE	15
SIGHT ANGLES	17
ROCKETS	47
Preflight/Release	47
Jettisoning Procedures	47

TABLE OF CONTENTS — CONTINUED

Page

GUNS 49

Preflight 49

Firing 49

FLARES MK 24/45 53

Release Procedures 53

SHRIKE 55

Preflight 55

Inflight 55

WALLEYE 57

Preflight 57

Inflight 57

SIDEWINDER 59

Preflight 59

Inflight 59

STORE WEIGHTS (POUNDS)

MK 77 MOD 2/4
FIRE BOMB 520

MK 81 LDGP BOMB 260
MK 82 LDGP BOMB 531
MK 83 LDGP BOMB 985
MK 84 LDGP BOMB . . . 1970

MK 81 SNAKEYE 1 305
MK 82 SNAKEYE 1 565
MK 36 DESTRUCTOR . . . 570
MK 40 DESTRUCTOR . . 1057

SHRIKE AGM 45A 400

WALLEYE MK 1 MOD 0 1150
SIDEWINDER AIM-9D . . . 195

MK 82 NE LGB 668
MK 82 EXT LBG 682
MK 83 LGB 1090

LAU-32A/A (FULL) 165
(EMPTY) 47
LAU-32B/A (FULL) 174
(EMPTY) 51
LAU-68/A (FULL) 330
(EMPTY) 67
LAU-3A/A (FULL) 431
(EMPTY) 74
LAU-60/A (FULL) 471
(EMPTY) 79
LAU-69/A (FULL) 483
(EMPTY) 98
LAU-61/A (FULL) 431
(EMPTY) 132

LAU-10/A ROCKET
PACK/LEAFLET
DISPENSER (FULL) . 553/235
(EMPTY) . . . 105

SUU-40/44 FLARE
DISPENSER 359/132

CBU-55/B 510
CBU-59/B 750
ROCKEYE II 490
MK 4 GUN POD (FULL) 1390
(EMPTY) 787

MK 76 MOD 4/5 PB 25
MK 86 — WF 141 — WSF . . . 217
MK 87 — WF 221 — WSF . . . 333
MK 88 — WF 450 — WSF . . . 783
MK 104 PB 2000
MK 106 PB 5
MK 124 . . . (CONICAL FIN) 525
(MK 15 MOD 2 FIN) 565

MER 220
TER 105
AERO 5 SERIES 91
LAU 7A 87
300 GAL D/T (FULL) 2247
(EMPTY) . . . 207
400 GAL D/T (FULL) 2960
(EMPTY) . . . 240
300 GAL A/R STORE
(FULL) 2740
(EMPTY) . . . 719

JETTISON LIMITATIONS

NOTE:

1. AIRSPEEDS LISTED ARE MAXIMUM PERMITTED.
2. PERFORM JETTISON IN 1G LEVEL FLIGHT IN CRUISE CONFIGURATION.

RACK/STORE	KNOTS INDICATED (MAX)
ALL MER/TER LOADINGS EXCEPT AS NOTED BELOW	250
EXCEPTIONS: 1. MER WITH ROCKET PODS FORWARD 2. MER WITH STORE(S) FORWARD AND NONE AFT, EACH STORE WEIGHING 250 LBS OR LESS 3. MER, EQUAL NO. STORES FORE AND AFT, EACH STORE WEIGHING 250 LBS OR MORE (EXCEPT ROCKET PODS) 4. TER LOADING WITH ANY STORE(S) WEIGHING 250 LBS OR MORE (EXCEPT ROCKET PODS)	 DO NOT JETTISON DO NOT JETTISON 400 400

AGM 45A SHRIKE	200
ALL ROCKET PODS FROM PARENT RACKS OR SELECTIVE RELEASE FROM MULTIPLE RACKS	350 LOADED 500 EMPTY
MK 4 GUN POD	275 WING STAS 325 CENTER STA
BANNER TOW TARGET	150
JATO BOTTLES	400

GP/LG BOMBS—CLUSTER BOMBS—FIRE BOMBS

The following items should be checked prior to each ordnance delivery flight.

AERO-7A/20 SERIES RACKS

1. Cartridges ..... INSTALLED
2. Ejector Foot 7A ..... ADJUSTED
3. Swaybraces ..... SECURE
4. Bomb/Missile Firing Plug ..... SET AS REQD
5. Rack Doors ..... SECURE
6. Safety Pin (STBD side AERO 7A Series) ..... INSTALLED

COCKPIT PRESTART CHECK

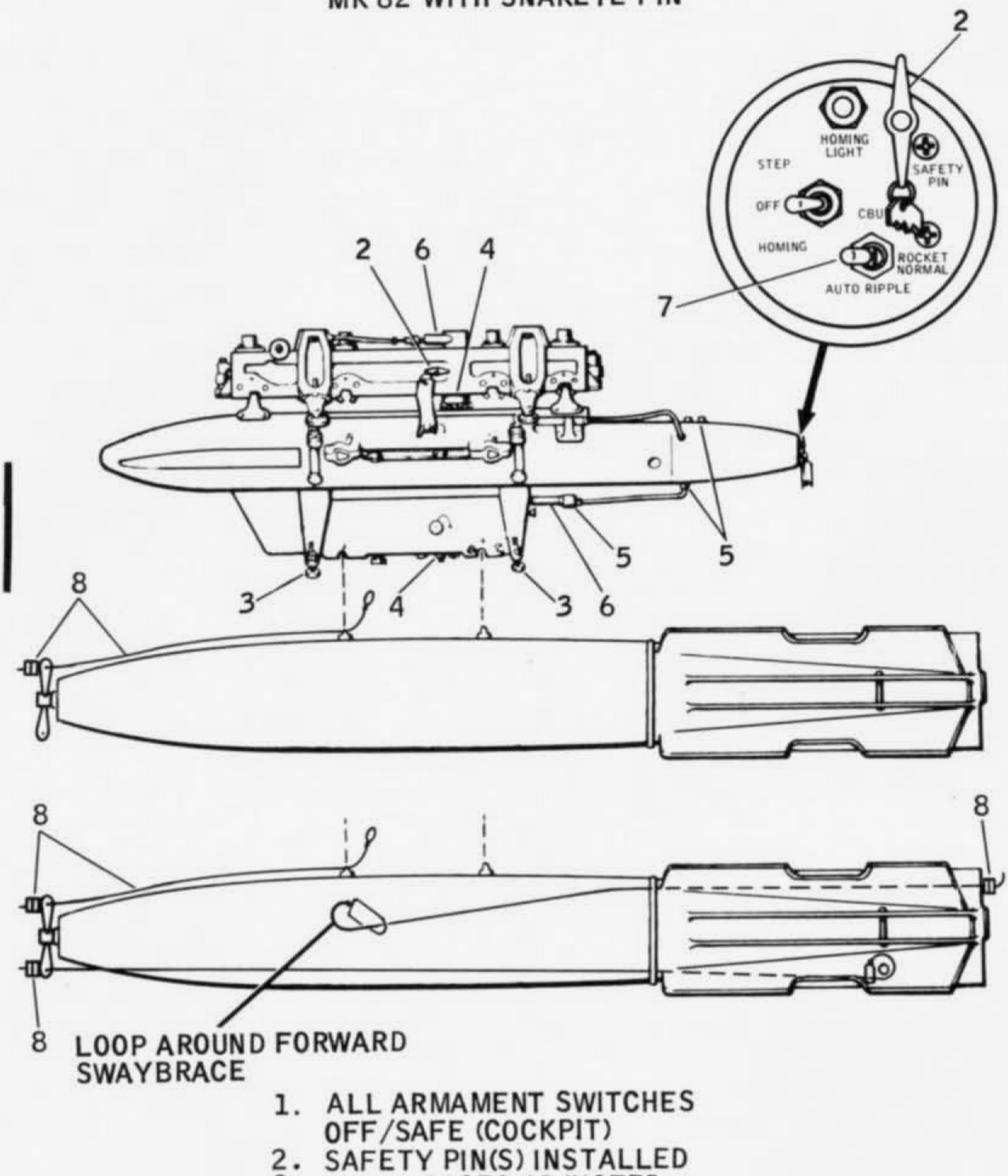
1. Master Arm Switch ..... OFF
2. Stations Select Switches ..... OFF
3. AWW-1/4 ..... SAFE
4. Nose/Tail Arm Switch ..... OFF

COCKPIT POSTSTART CHECK

1. Gunsight Boresight ..... CHECK AND NOTE
2. AWW-1/4 HVDC ..... CHECK
   (Elec Fuzing only)

GP BOMBS UNRETARDED - RETARDED

MK 82 WITH SNAKEYE FIN

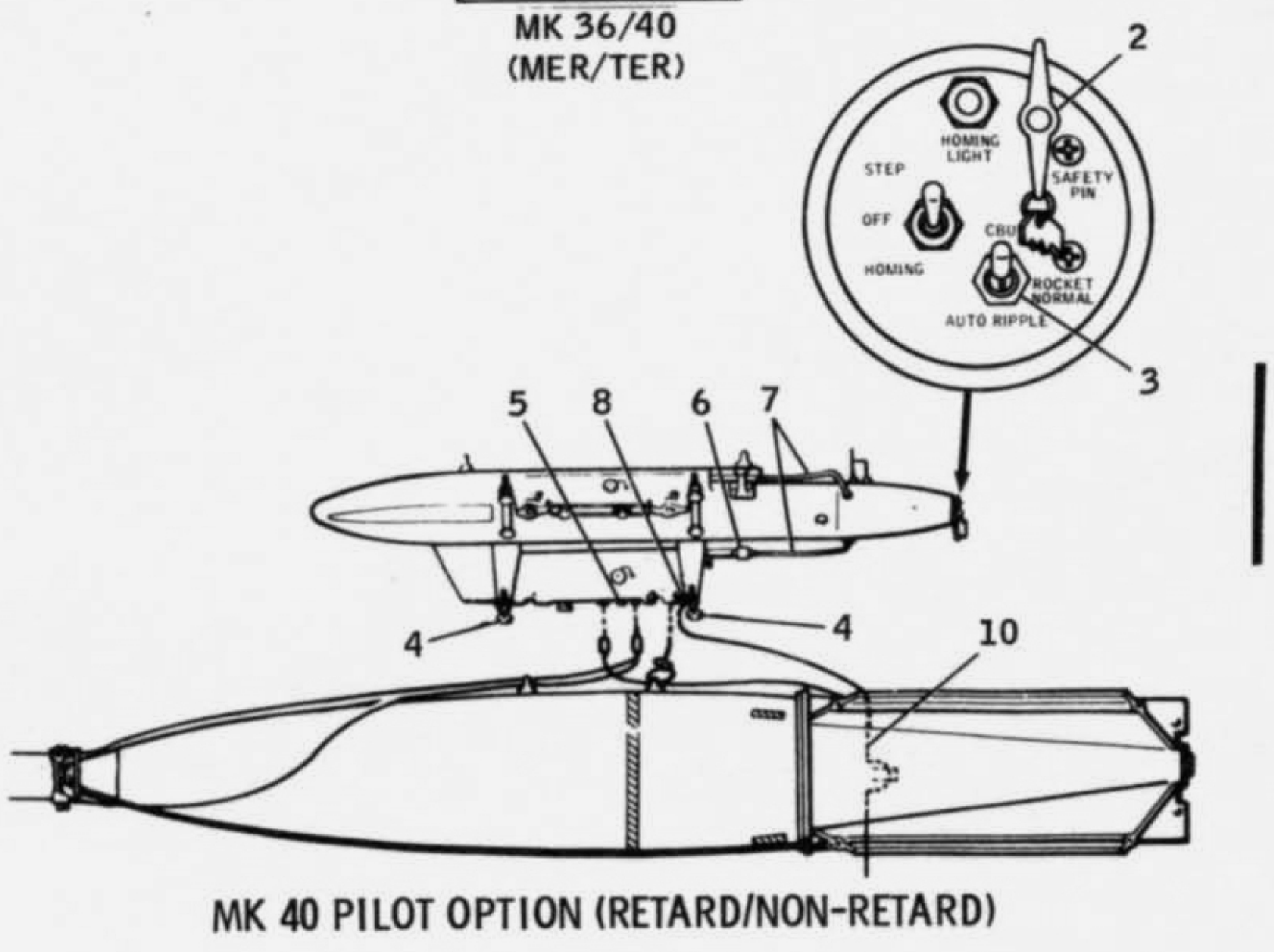


1. ALL ARMAMENT SWITCHES OFF/SAFE (COCKPIT)
2. SAFETY PIN(S) INSTALLED
3. SWAYBRACES ADJUSTED
4. EJECTOR FOOT ADJUSTED
5. MER/TER HARNESS CONNECTED
6. CARTRIDGES INSTALLED
7. MODE SELECTOR SWITCH SET
8. FUZE, ARMING WIRE AND FAHNESTOCK CLIPS INSTALLED

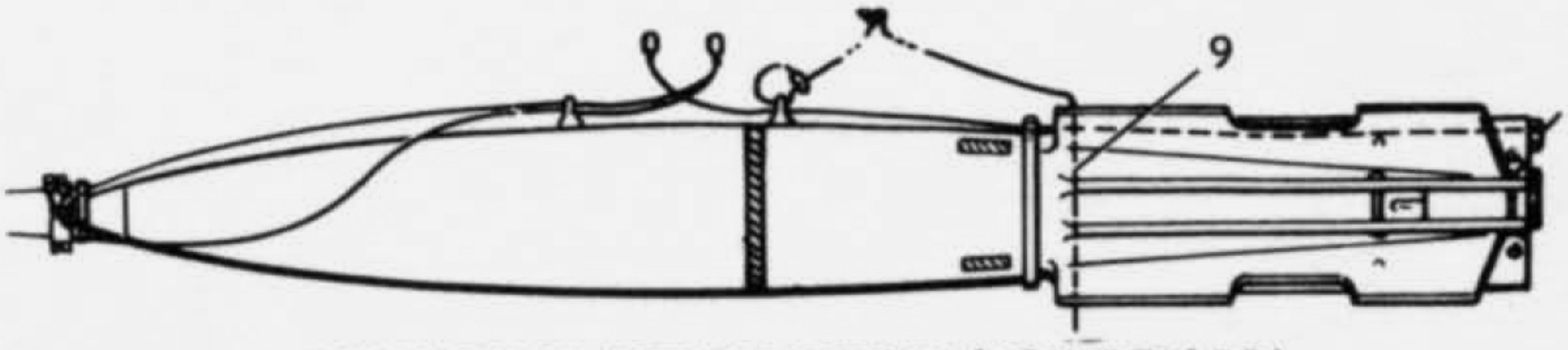
DD1TB-8-B

DESTRUCTORS

MK 36/40
(MER/TER)



MK 40 PILOT OPTION (RETARD/NON-RETARD)



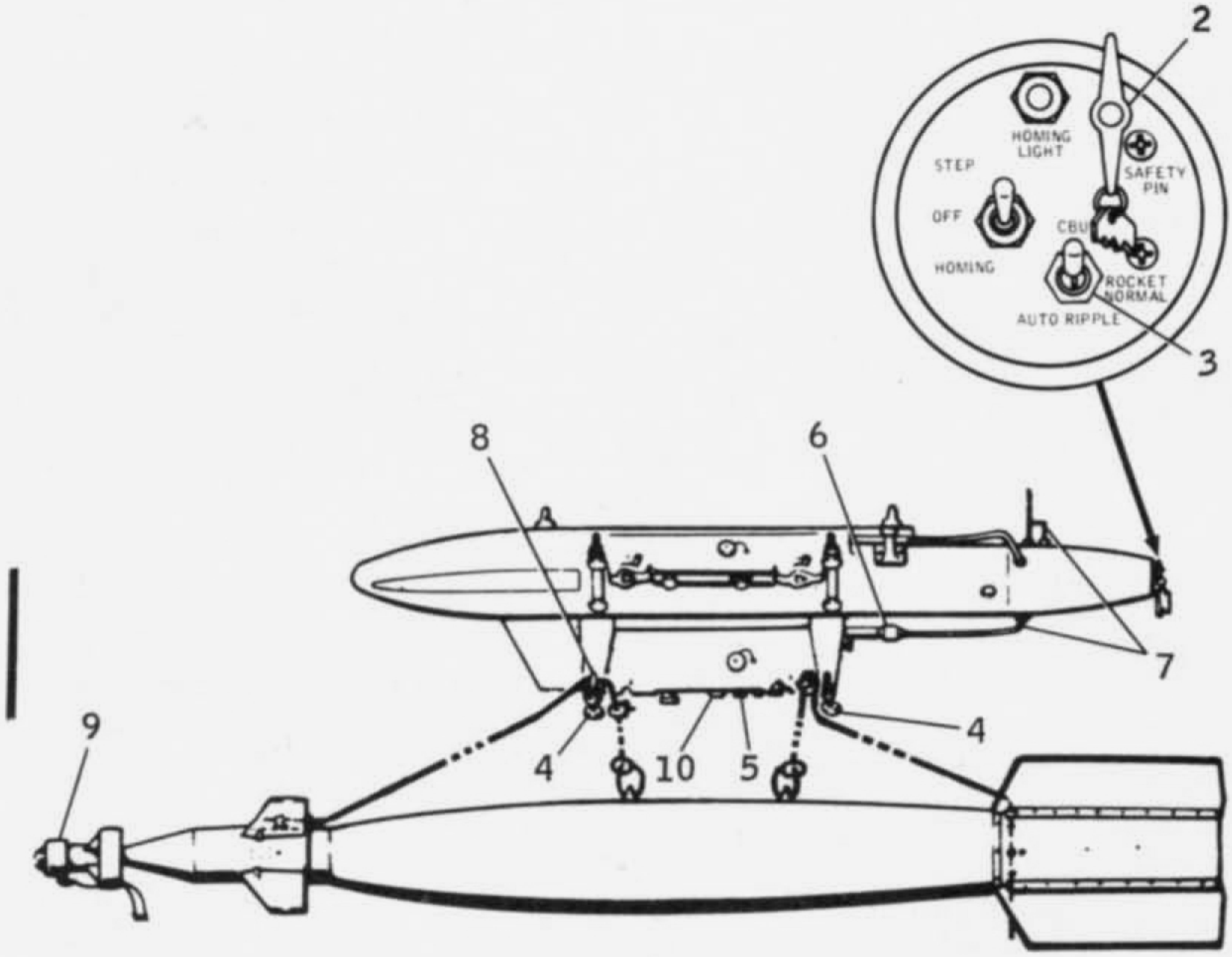
MK 36 PILOT OPTION (RETARD/NON-RETARD)

1. ALL ARMAMENT SWITCHES OFF/SAFE (COCKPIT)
2. MECH/ELECT SAFETY PINS INSTALLED
3. MODE SELECTOR SWITCH SET
4. SWAYBRACES ADJUSTED; JAMNUTS TIGHT
5. EJECTOR FOOT POSITIONED
6. CARTRIDGE(S) INSTALLED; BREECH CAP(S) TIGHT
7. ADAPTER HARNESS CONNECTED
8. ARMING WIRES INSTALLED
9. (MK 36) FIN RELEASE WIRE INSTALLED (DO NOT RIG FOR NON-RETARD)
10. (MK 40) FIN RELEASE LANYARD AND PIN INSTALLED (DO NOT RIG FOR NON-RETARD)

DD1TB-44-A

LASER GUIDED BOMB

(MER/TER)



1. ALL ARMAMENT SWITCHES OFF/SAFE (COCKPIT)
2. MECH/ELECT SAFETY PINS INSTALLED
3. MODE SELECTOR SWITCH SET
4. SWAYBRACES ADJUSTED; JAMNUTS TIGHT
5. EJECTOR FOOT POSITIONED
6. CARTRIDGE(S) INSTALLED; BREECH CAP(S) TIGHT
7. ADAPTER HARNESS CONNECTED
8. ARMING WIRE ROUTED OVER TOP FWD SWAYBRACE
9. DETECTOR COVER/PACKING MATERIAL INSTALLED
10. LANYARD TAB CONNECTED TO SPRING LATCH

DD1TB-47-A

GP/LG BOMBS — CLUSTER BOMBS — FIRE BOMBS — CONTINUED

PREFLIGHT/INFLIGHT CHECKS

AWE-1

1. QTY SEL ..... _____
2. INTVL ..... _____
3. MULT SW ..... _____
4. MODE SEL ..... _____

FUZING

MECH

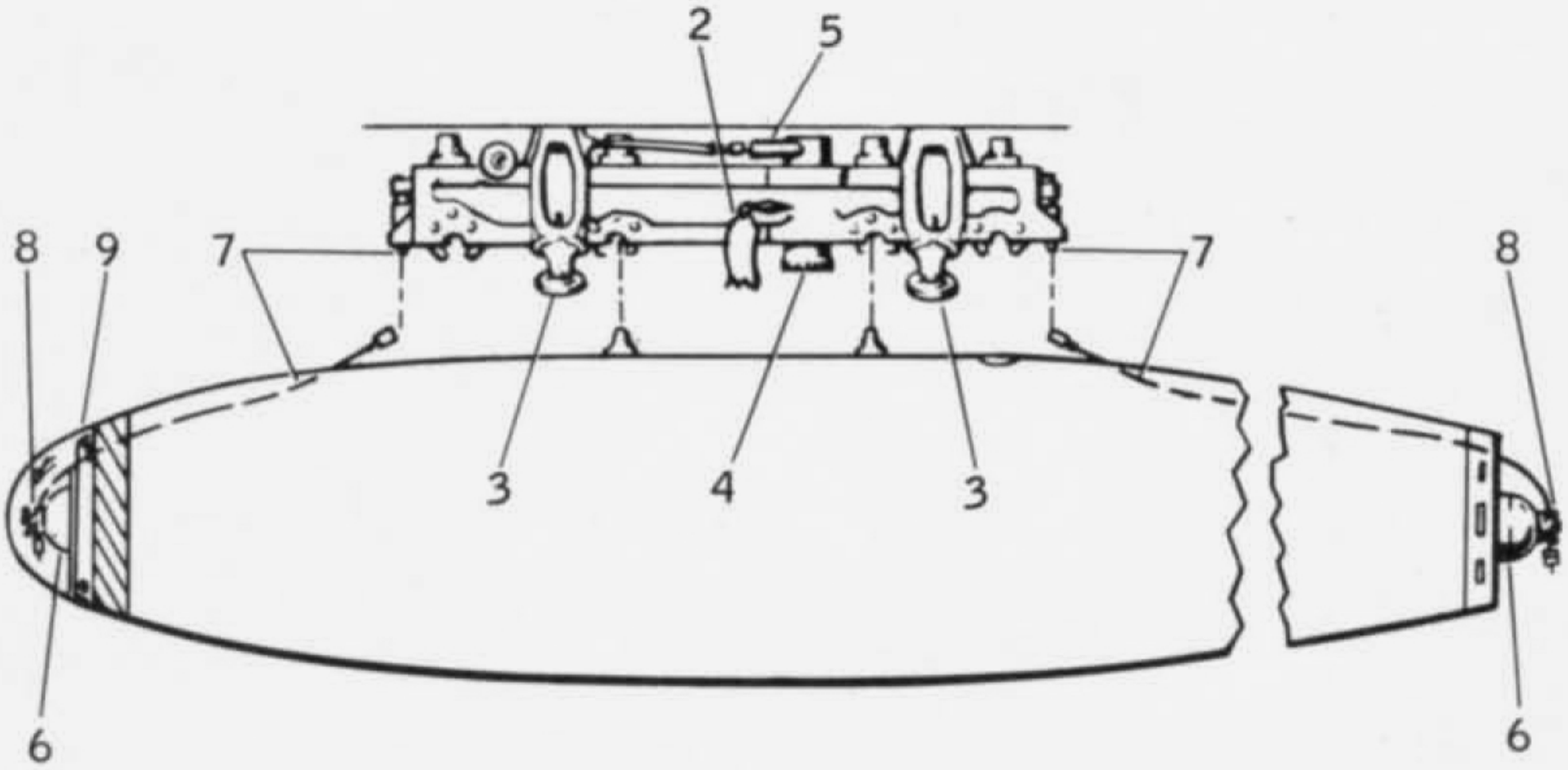
1. MECH N/T ..... _____

ELEC

1. OPT SEL SW ..... _____
2. CONTROL SW .....READY
3. HVDC Light .....ON

FIRE BOMBS

MK 77 MOD 2

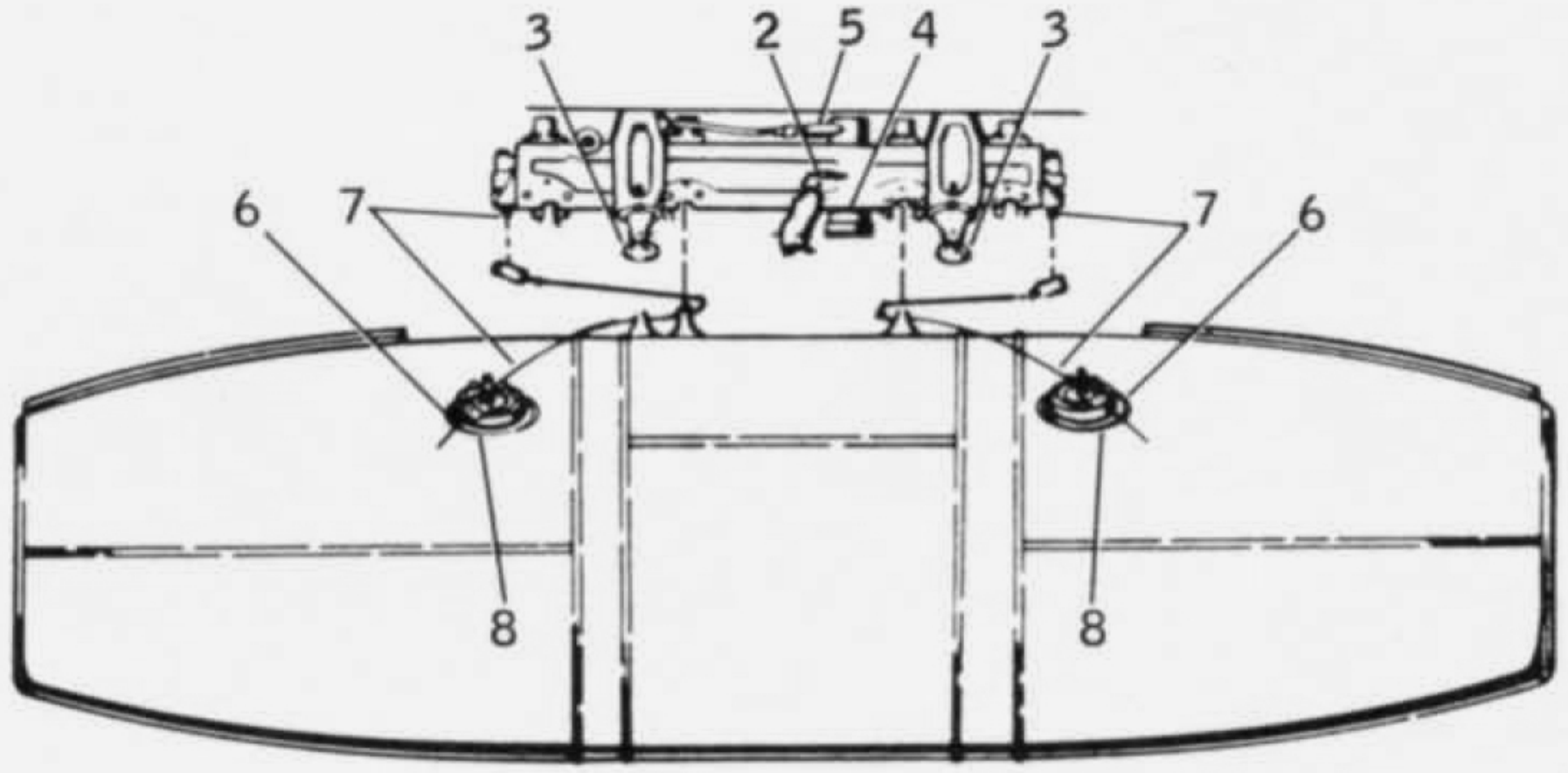


1. ALL ARMAMENT SWITCHES OFF/SAFE (COCKPIT)
2. SAFETY PIN INSTALLED
3. SWAYBRACES ADJUSTED
4. EJECTOR FOOT ADJUSTED
5. CARTRIDGES INSTALLED
6. FUZES/IGNITERS INSTALLED
7. ARMING WIRES INSTALLED; ATTACHED TO ARMING SOLENOIDS
8. FUZE SAFETY PINS REMOVED
9. (IF APPLICABLE) NOSE CONES INSTALLED

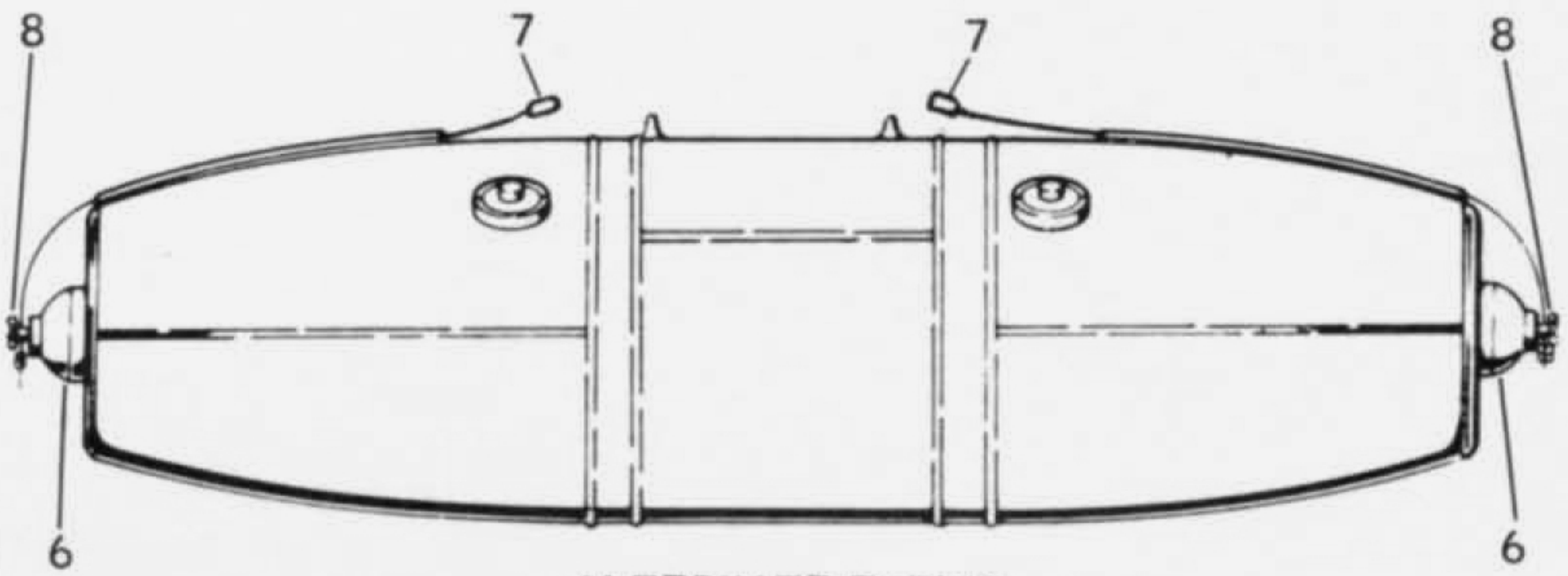
DD1TB-37-A

FIRE BOMBS

MK 77 MOD 4



PRIMARY FUZING



ALTERNATE FUZING

1. ALL ARMAMENT SWITCHES OFF/SAFE (COCKPIT)
2. SAFETY PIN INSTALLED
3. SWAYBRACES ADJUSTED
4. EJECTOR FOOT ADJUSTED
5. CARTRIDGES INSTALLED
6. FUZES/IGNITERS INSTALLED
7. ARMING WIRES INSTALLED; ATTACHED TO ARMING SOLENOIDS
8. FUZE SAFETY PINS REMOVED

DD1TB-38-A

COMPUTER RELEASE — CP-741/A

COMPUTER

1. Aircraft Module ..... INSTALLED
2. Wpn Adapter Module ..... BAL 1/2 AS REQD
3. Switch Module
   - O/S Angle ..... _____
   - Safe Standoff ..... _____
   - Set Range ..... _____
   - Loft Angle ..... _____
   - Loft Run-in ..... _____
   - Stik Time ..... _____
   - Ejec Vel ..... _____

CONTROLS

1. Attack Mode ..... _____
2. BAL Switch ..... _____
3. Burst Hgt ..... _____
4. Target Hgt ..... _____
5. D-Value ..... _____

RADAR CONTROLS

1. AOA COMP ..... OFF
2. Mode Sel ..... A/G

DELIVERY

1. Gunsight ..... 0 MILS
2. Func Sel Sw ..... CMPTR
3. Sta Sel Sw ..... _____
4. Master Arm Sw ..... ON
5. Bomb Button ..... DEPRESS/COMMENCE MANEUVER

GUNSIGHT RELEASE

1. Gunsight ..... _____
2. Func Sel Sw ..... CMPTR (BOMBS & GM ARM PRIOR TO AFC 319)
3. CP-741/A Attack Mode Sw ..... MANUAL (IF INSTALLED)
4. Sta Sel Sw ..... _____
5. Master Arm Sw ..... ON
6. Bomb Button/Trigger ..... DEPRESS

SIGHT ANGLES

INDEX TO SIGHT ANGLES

Page

SIGHT ANGLE CORRECTIONS (18,000 lb aircraft) 19

MK 81 GP CONICAL FIN AND MK 86 PB 20

MK 81 SNAKEYE (UNRETARDED) 21

MK 81 SNAKEYE (RETARDED) 22

MK 82 GP CONICAL FIN AND MK 87 PB 23

MK 82 SNAKEYE AND MK 124 PB (UNRETARDED) 24

MK 82 SNAKEYE (RETARDED) 25

DST MK 40 (UNRETARDED) 26

DST MK 40 (RETARDED) 27

MK 83 GP CONICAL FIN 28

MK 84 GP CONICAL FIN 29

MK 76 MOD 5 PB 30

MK 106 MOD 4 PB 31

CBU-59/B (APAM) 1.2 SEC 32

CBU-59/B (APAM) 4.0 SEC 33

INDEX TO SIGHT ANGLES CONTINUED

Page

ROCKEYE II 1, 2 SEC 34

ROCKEYE II 4.0 SEC 35

2.75-INCH FFAR/ WARHEAD M151 36

2.75-INCH FFAR/WARHEADS MK 1 AND 5
MK 1 MOD 2 TRAINING HEAD 37

5.00-INCH ZUNI/MOTOR MK 71 MOD 0
WARHEAD MK 24 38

5.00-INCH ZUNI/MOTOR MK 71 MOD 0
WARHEAD MK 32 39

5.00-INCH ZUNI/MOTOR MK 71 MOD 0
WARHEAD MK 63 40

5.00-INCH ZUNI/MOTOR MK 71 MOD 1
WARHEAD MK 24 41

5.00-INCH ZUNI/MOTOR MK 71 MOD 1
WARHEAD MK 32 42

5.00-INCH ZUNI/MOTOR MK 71 MOD 1
WARHEAD MK 63 43

MK 77 MODS 2 AND 4 FIRE BOMBS 44

MK 12 GUN AND MK 4 GUN POD 45

WARNING

Where sight angles are not given in tables, maneuver is unsafe or not feasible because of extremely high sight angle settings.

SIGHT ANGLES

MILS FOR EACH 1000-POUND INCREASE/DECREASE
IN AIRCRAFT GROSS WEIGHT

18,000 POUND AIRCRAFT

DIVE ANGLE	TRUE AIRSPEED—KNOTS			
	325	400	450	500
0°	3.0	2.0	1.5	1.5
10°	3.5	2.0	1.5	1.5
20°	4.0	2.5	1.5	1.0
30°	4.0	2.5	1.5	1.0
40°	3.5	2.0	1.5	1.0
45°	3.5	2.0	1.5	1.0
50°	3.0	1.5	1.0	1.0
60°	1.5	1.0	1.0	0.5

CORRECTIONS:

SPEEDBRAKES EXTENDED . . . . . +9 MILS

DROP TANKS . . . . . +5 MILS/TANK

ROCKETS (CENTERLINE ONLY) . . . . . +3 MILS, 2.75 INCH FFAR
+5 MILS, 5.0 INCH ZUNI

SIGHT ANGLES

MK 81 GP CONICAL FIN AND MK 86 PRACTICE BOMB
MER/TER EJEC VEL
7.2 FT/SEC

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
MIL CORR AERO 20/7A		+20/+18		+18/+16		+16/+14		+14/+13	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
0	1000	FRAG	FRAG	FRAG	FRAG	177	7.76	154	7.77
	1500	296	9.55	251	9.56	216	9.58	189	9.60
	2000	336	11.08	287	11.10	248	11.12	218	11.15
	2500	371	12.43	318	12.46	277	12.49	245	12.51
-10	1100	181	5.60	146	5.34	116	5.09	94	4.86
	1500	215	6.93	175	6.64	142	6.37	118	6.12
	2000	251	8.38	207	8.08	171	7.80	143	7.53
	3000	311	10.87	260	10.56	219	10.26	187	9.97
-20	1500	159	5.21	FRAG	FRAG	FRAG	FRAG	FRAG	FRAG
	2000	189	6.51	149	6.10	121	5.72	96	5.38
	2500	216	7.70	173	7.25	141	6.84	115	6.46
	3000	240	8.80	195	8.32	160	7.88	132	7.48
-30	2000	146	5.27	112	4.84	FRAG	FRAG	FRAG	FRAG
	2500	168	6.33	131	5.84	104	5.41	82	5.04
	3000	188	7.33	148	6.80	119	6.32	95	5.91
	4000	224	9.18	180	8.58	146	8.04	119	7.55
-45	3000	126	5.91	T.A.	T.A.	T.A.	T.A.	T.A.	T.A.
	3500	139	6.74	106	6.17	T.A.	T.A.	T.A.	T.A.
	4000	151	7.54	117	6.92	92	6.38	72	5.91
	5000	173	9.07	137	8.37	109	7.76	87	7.22
	6000	193	10.50	155	9.74	125	9.07	101	8.48
-60	4500	98	7.30	T.A.	T.A.	T.A.	T.A.	T.A.	T.A.
	5000	105	7.99	80	7.29	T.A.	T.A.	T.A.	T.A.
	6000	118	9.32	91	8.55	71	7.89	T.A.	T.A.
	7000	129	10.59	102	9.76	81	9.03	64	8.40
	8000	140	11.81	112	10.92	90	10.14	72	9.46

SA = SIGHT ANGLE IN MILS
TOF = TIME OF FALL IN SECONDS
T.A. = TERRAIN AVOIDANCE
FRAG = FRAGMENT HIT PROBABILITY

SIGHT ANGLES

MK 81 SNAKEYE UNRETARDED
MER/TER EJEC VEL
7.2 FT/SEC

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
MIL CORR AERO 20/7A		+19/+16		+17/+14		+15/+13		+13/+12	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
0	600	FRAG	FRAG	FRAG	FRAG	FRAG	FRAG	120	6.00
	1000	FRAG	FRAG	212	7.82	181	7.84	157	7.86
	1500	301	9.64	256	9.67	221	9.70	193	9.72
	2000	343	11.21	293	11.24	254	11.27	225	11.31
-10	1000	174	5.29	FRAG	FRAG	111	4.80	FRAG	FRAG
	1100	183	5.66	148	5.40	118	5.15	96	4.92
	1500	218	7.01	178	6.73	145	6.47	120	6.22
	2000	255	8.50	211	8.21	175	7.93	147	7.66
	3000	318	11.05	267	10.75	225	10.46	193	10.18
-30	2000	148	5.34	114	4.90	FRAG	FRAG	FRAG	FRAG
	2500	171	6.42	133	5.93	106	5.50	83	5.12
	3000	191	7.45	151	6.92	121	6.44	97	6.02
	4000	229	9.35	184	8.75	150	8.21	123	7.72
-45	3500	141	6.86	108	6.27	T.A.	T.A.	T.A.	T.A.
	4000	154	7.68	120	7.06	94	6.51	74	6.03
	5000	177	9.26	140	8.56	112	7.94	90	7.39
	6000	198	10.75	159	9.99	129	9.30	105	8.70
-60	4500	100	7.43	T.A.	T.A.	T.A.	T.A.	T.A.	T.A.
	5000	107	8.15	82	7.45	T.A.	T.A.	T.A.	T.A.
	6000	120	9.53	94	8.75	73	8.07	T.A.	T.A.
	7000	132	10.85	105	10.01	83	9.27	66	8.62
	8000	143	12.13	115	11.23	93	10.43	75	9.73

SA = SIGHT ANGLE IN MILS
TOF = TIME OF FALL IN SECONDS
T.A. = TERRAIN AVOIDANCE
FRAG = FRAGMENT HIT PROBABILITY

SIGHT ANGLES

MK 81 SNAKEYE RETARDED
MER/TER EJEC VEL
7.2 FT/SEC

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
MIL CORR AERO 20/7A		+12/+10		+10/+9		+9/+8		+7/+7	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
0	100	117	2.60	95	2.65	79	2.69	66	2.73
	200	163	3.92	138	3.98	119	4.03	105	4.08
	500	273	6.66	242	6.74	219	6.82	202	6.88
-10	500	166	4.26	138	4.14	115	4.04	T.A.	T.A.
	800	245	6.39	214	6.30	187	6.22	166	6.15
	1000	295	7.66	261	7.58	233	7.52	211	7.45
-20	1100	221	6.28	186	6.07	162	5.88	T.A.	T.A.
	1500	298	8.49	260	8.30	233	8.13	209	7.97

SA = SIGHT ANGLE IN MILS
TOF = TIME OF FALL IN SECONDS
T.A. = TERRAIN AVOIDANCE

SIGHT ANGLES

MK 82 MOD 2 (THERMAL)/CONICAL FIN
ALSO MK 82 (SLICK)/CONICAL AND PB MK 87 WSF
MER/TER EJEC VEL
6.0 FT/SEC

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
MIL CORR AERO 20/7R		+14/+13		+13/+12		+11/+10		+10/+9	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
0	1000	FRAG	FRAG	FRAG	FRAG	FRAG	FRAG	152	7.79
	1500	295	9.58	250	9.59	214	9.60	187	9.61
	2000	335	11.11	285	11.12	247	11.14	217	11.15
	2500	370	12.46	316	12.48	275	12.49	242	12.51
-10	1200	189	5.97	152	5.69	122	5.43	99	5.19
	1500	213	6.95	174	6.66	141	6.38	116	6.12
	2000	249	8.40	205	8.10	169	7.80	141	7.52
	2500	281	9.70	233	9.39	194	9.08	164	8.79
-20	1700	169	5.76	132	5.36	FRAG	FRAG	FRAG	FRAG
	2000	187	6.53	147	6.10	119	5.72	95	5.37
	3000	238	8.81	193	8.32	158	7.87	130	7.46
	4000	281	10.81	232	10.28	192	9.79	161	9.33
-30	2500	166	6.34	129	5.84	102	5.41	FRAG	FRAG
	3000	186	7.33	146	6.79	117	6.32	93	5.89
	4000	222	9.18	178	8.57	144	8.02	117	7.52
	5000	254	10.87	206	10.20	169	9.60	139	9.05
-45	3000	124	5.91	T.A.	T.A.	T.A.	T.A.	T.A.	T.A.
	3500	137	6.74	105	6.16	T.A.	T.A.	T.A.	T.A.
	4500	161	8.31	126	7.64	99	7.06	78	6.55
	5500	182	9.79	145	9.05	115	8.39	92	7.81
-60	4500	96	7.29	T.A.	T.A.	T.A.	T.A.	T.A.	T.A.
	5000	103	7.98	78	7.28	T.A.	T.A.	T.A.	T.A.
	6000	116	9.30	90	8.53	69	7.85	T.A.	T.A.
	7000	128	10.57	100	9.72	79	8.99	62	8.34

SA = SIGHT ANGLE IN MILS
TOF = TIME OF FALL IN SECONDS
T.A. = TERRAIN AVOIDANCE
FRAG = FRAGMENT HIT PROBABILITY

SIGHT ANGLES

MK 82 SNAKEYE AND MK 124 PRACTICE BOMB UNRETARDED
MER/TER EJEC VEL
5.6 FT/SEC

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
MIL CORR AERO 20/7A		+14/+13		+12/+11		+10/+9		+9/+8	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
0	800	FRAG	FRAG	FRAG	FRAG	FRAG	FRAG	137	7.00
	1000	FRAG	FRAG	FRAG	FRAG	178	7.85	154	7.86
	1200	FRAG	FRAG	227	8.61	194	8.62	169	8.64
	1600	306	9.97	260	9.99	224	10.01	196	10.03
	2000	338	11.19	289	11.21	250	11.24	220	11.26
-10	1200	189	6.01	153	5.74	123	5.48	100	5.24
	2000	251	8.47	207	8.17	171	7.89	144	7.62
	3000	313	11.00	262	10.69	220	10.38	189	10.09
-20	1600	164	5.54	127	5.15	FRAG	FRAG	FRAG	FRAG
	2000	188	6.58	149	6.16	120	5.78	96	5.43
	3000	240	8.90	195	8.42	160	7.98	132	7.57
-30	2000	145	5.32	FRAG	FRAG	FRAG	FRAG	FRAG	FRAG
	2500	167	6.39	130	5.90	103	5.47	81	5.08
	3500	207	8.37	164	7.79	133	7.28	107	6.82
	4500	241	10.16	195	9.53	159	8.95	131	8.43
-45	3000	124	5.97	T.A.	T.A.	T.A.	T.A.	T.A.	T.A.
	3500	138	6.81	105	6.23	T.A.	T.A.	T.A.	T.A.
	4500	162	8.41	127	7.74	100	7.16	79	6.64
	6000	194	10.63	155	9.87	125	9.18	101	8.58
-60	4500	97	7.37	T.A.	T.A.	T.A.	T.A.	T.A.	T.A.
	5000	104	8.07	79	7.37	T.A.	T.A.	T.A.	T.A.
	6000	117	9.42	91	8.65	70	7.97	T.A.	T.A.
	7000	129	10.72	101	9.88	80	9.14	64	8.49

SA = SIGHT ANGLE IN MILS
TOF = TIME OF FALL IN SECONDS
T.A. = TERRAIN AVOIDANCE
FRAG = FRAGMENT HIT PROBABILITY

SIGHT ANGLES

MK 82 SNAKEYE RETARDED
MER/TER EJEC VEL
5.6 FT/SEC

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
MIL CORR AERO 20/7A		+10/+9		+9/+8		+8/+7		+7/+6	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
0	100	FRAG	FRAG	FRAG	FRAG	73	2.65	61	2.69
	200	152	3.84	127	3.90	109	3.95	95	4.00
	300	187	4.84	160	4.91	140	4.97	125	5.03
	500	248	6.47	218	6.56	195	6.64	178	6.70
-10	500	148	4.00	122	3.86	99	3.74	T.A.	T.A.
	600	171	4.69	143	4.56	119	4.44	100	4.34
	800	215	5.98	184	5.86	158	5.76	138	5.67
-20	900	157	4.67	T.A.	T.A.	T.A.	T.A.	T.A.	T.A.
	1200	206	6.23	171	5.99	147	5.79	T.A.	T.A.
	1500	253	7.72	216	7.49	190	7.30	167	7.12
-30	1700	206	6.97	T.A.	T.A.	T.A.	T.A.	T.A.	T.A.
	2000	242	8.29	206	7.96	179	7.68	T.A.	T.A.
	2500	300	10.42	262	10.10	233	9.82	210	9.58
-45	3000	228	10.27	T.A.	T.A.	T.A.	T.A.	T.A.	T.A.
	3500	265	12.21	231	11.75	T.A.	T.A.	T.A.	T.A.
	4000	299	14.14	265	13.68	240	13.29	218	12.94
	5000	358	17.93	326	17.47	300	17.08	279	16.73

SA = SIGHT ANGLE IN MILS
TOF = TIME OF FALL IN SECONDS
T A. = TERRAIN AVOIDANCE
FRAG = FRAGMENT HIT PROBABILITY

SIGHT ANGLES

DST MK 40 UNRETARDED
MER/TER EJEC VEL
4.8 FT/SEC

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
MIL CORR AERO 20/7A		+7/+9		+6/+8		+6/+7		+5/+6	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
0	1000	FRAG	FRAG	FRAG	FRAG	178	7.88	154	7.90
	1500	298	9.68	252	9.70	217	9.73	190	9.75
	2000	338	11.23	289	11.26	251	11.29	221	11.32
-10	1200	189	6.04	153	5.77	122	5.51	100	5.27
	1500	214	7.03	175	6.74	142	6.48	117	6.22
	2000	251	8.51	207	8.21	171	7.93	144	7.66
	2500	284	9.83	236	9.53	197	9.24	167	8.95
-20	1700	170	5.83	132	5.43	FRAG	FRAG	FRAG	FRAG
	2000	188	6.61	148	6.18	120	5.80	95	5.46
	3000	240	8.94	195	8.46	160	8.01	132	7.61
	4000	285	10.99	235	10.47	196	9.99	165	9.54
-30	2500	167	6.42	129	5.92	102	5.49	FRAG	FRAG
	3000	187	7.43	147	6.90	118	6.42	94	5.99
	4000	224	9.32	180	8.72	146	8.17	119	7.68
	5000	257	11.05	209	10.40	172	9.80	142	9.26
-45	3000	124	5.99	T.A.	T.A.	T.A.	T.A.	T.A.	T.A.
	4000	149	7.65	116	7.02	90	6.48	70	6.00
	5000	173	9.21	136	8.50	108	7.88	86	7.34
	6000	193	10.68	155	9.91	125	9.23	101	8.62
-60	4500	96	7.39	T.A.	T.A.	T.A.	T.A.	T.A.	T.A.
	5000	103	8.10	78	7.40	T.A.	T.A.	T.A.	T.A.
	6000	116	9.46	90	8.69	70	8.01	T.A.	T.A.
	7000	128	10.77	101	9.93	80	9.19	63	8.54
	8000	139	12.02	111	11.12	89	10.33	72	9.63

SA = SIGHT ANGLE IN MILS
TOF = TIME OF FALL IN SECONDS
T.A. = TERRAIN AVOIDANCE
FRAG = FRAGMENT HIT PROBABILITY

SIGHT ANGLES

DST MK 40 RETARDED
MER/TER EJEC VEL
4.8 FT/SEC

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
MIL CORR AERO 20/7A		+6/+6		+5/+5		+4/+5		+3/+4	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
0	100	FRAG	FRAG	FRAG	FRAG	71	2.68	58	2.71
	200	150	3.87	125	3.93	106	3.99	91	4.04
	400	217	5.74	188	5.82	165	5.90	147	5.97
	600	274	7.23	241	7.33	216	7.41	197	7.49
-10	500	146	4.01	119	3.86	94	3.71	T.A.	T.A.
	750	203	5.69	171	5.56	143	5.43	122	5.31
	1000	256	7.19	221	7.08	191	6.98	168	6.87
-20	900	155	4.68	T.A.	T.A.	T.A.	T.A.	T.A.	T.A.
	1000	171	5.21	137	4.95	T.A.	T.A.	T.A.	T.A.
	1500	252	7.75	213	7.50	184	7.27	159	7.04
	2000	327	10.11	285	9.88	254	9.66	226	9.46
-30	1700	205	7.00	T.A.	T.A.	T.A.	T.A.	T.A.	T.A.
	2000	241	8.32	203	7.96	173	7.63	T.A.	T.A.
	2500	300	10.47	259	10.12	227	9.79	200	9.48
-45	3000	227	10.32	T.A.	T.A.	T.A.	T.A.	T.A.	T.A.
	3500	264	12.28	229	11.77	T.A.	T.A.	T.A.	T.A.
	4000	299	14.22	263	13.71	235	13.25	210	12.82
	5000	359	18.04	324	17.53	296	17.07	271	16.64
-60	4500	199	14.43	T.A.	T.A.	T.A.	T.A.	T.A.	T.A.
	5000	219	16.30	193	15.67	T.A.	T.A.	T.A.	T.A.
	6000	253	20.02	228	19.37	208	18.79	T.A.	T.A.
	7000	281	23.68	258	23.03	238	22.44	222	21.89

SA = SIGHT ANGLE IN MILS
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T.A. = TERRAIN AVOIDANCE
FRAG = FRAGMENT HIT PROBABILITY

SIGHT ANGLES

MK 83 OP CONICAL FIN
MER/TER EJEC VEL
4.8 FT/SEC

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
MIL CORR AERO 20/7A		+8/+10		+8/+9		+7/+8		+6/+7	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
0	1500	FRAG	FRAG	246	9.56	211	9.57	184	9.57
	2000	330	11.06	281	11.07	242	11.08	212	11.09
-10	1200	186	5.95	150	5.67	119	5.41	FRAG	FRAG
	1500	210	6.92	171	6.63	138	6.35	113	6.09
	2000	245	8.36	202	8.05	166	7.75	138	7.47
-20	1700	166	5.73	129	5.34	FRAG	FRAG	FRAG	FRAG
	2000	184	6.49	145	6.06	116	5.68	92	5.33
	3000	234	8.74	189	8.25	155	7.80	127	7.38
	4000	276	10.71	227	10.17	188	9.68	157	9.22
-30	2100	146	5.46	FRAG	FRAG	FRAG	FRAG	FRAG	FRAG
	2500	163	6.29	126	5.80	99	5.37	FRAG	FRAG
	3000	183	7.27	143	6.74	114	6.26	91	5.84
	4000	218	9.09	174	8.48	141	7.93	114	7.43
	5000	249	10.74	201	10.08	165	9.47	135	8.93
-45	3000	121	5.87	T.A.	T.A.	T.A.	T.A.	T.A.	T.A.
	4000	146	7.47	112	6.84	87	6.30	68	5.83
	5000	168	8.96	132	8.26	104	7.64	82	7.10
	6000	187	10.36	150	9.59	120	8.91	96	8.31
-60	4500	94	7.22	T.A.	T.A.	T.A.	T.A.	T.A.	T.A.
	5000	100	7.89	76	7.20	T.A.	T.A.	T.A.	T.A.
	6000	113	9.19	87	8.42	67	7.75	T.A.	T.A.
	7000	124	10.42	97	9.59	76	8.86	60	8.22
	8000	135	11.60	107	10.71	85	9.93	68	9.25

SA = SIGHT ANGLE IN MILS
TOF = TIME OF FALL IN SECONDS
T.A. = TERRAIN AVOIDANCE
FRAG = FRAGMENT HIT PROBABILITY

SIGHT ANGLES

MK 84 GP CONICAL FIN
AERO 7A EJEC VEL
15.0 FT/SEC

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
0	1500	FRAG	FRAG	253	9.24	217	9.25	189	9.25
	2000	338	10.74	287	10.75	248	10.75	217	10.76
-10	1500	221	6.70	180	6.42	147	6.15	122	5.90
	2000	255	8.12	211	7.82	174	7.53	146	7.26
-20	1800	185	5.84	146	5.45	FRAG	FRAG	FRAG	FRAG
	2000	196	6.33	156	5.92	127	5.55	102	5.21
	3000	245	8.55	199	8.07	164	7.64	136	7.23
	4000	286	10.50	237	9.97	196	9.49	165	9.04
-30	2500	176	6.17	138	5.69	110	5.27	FRAG	FRAG
	3000	196	7.14	155	6.62	125	6.15	100	5.74
	4000	230	8.93	185	8.33	151	7.80	123	7.31
	5000	260	10.56	212	9.91	174	9.32	144	8.78
-45	3500	148	6.60	114	6.03	T.A.	T.A.	T.A.	T.A.
	4000	159	7.37	125	6.76	99	6.23	78	5.76
	5000	181	8.84	144	8.15	115	7.55	92	7.01
	6000	200	10.23	161	9.47	130	8.80	106	8.21
-60	4500	108	7.15	T.A.	T.A.	T.A.	T.A.	T.A.	T.A.
	5000	114	7.82	88	7.13	T.A.	T.A.	T.A.	T.A.
	6000	126	9.10	99	8.34	78	7.68	T.A.	T.A.
	7000	137	10.33	109	9.50	87	8.78	70	8.15
	8000	147	11.50	118	10.62	95	9.84	78	9.16

SA = SIGHT ANGLE IN MILS
TOF = TIME OF FALL IN SECONDS
T.A. = TERRAIN AVOIDANCE
FRAG = FRAGMENT HIT PROBABILITY

SIGHT ANGLES

MK 76 MOD 5 PRACTICE BOMB
MER/TER EJEC VEL
0 FT/SEC

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
0	100	97	2.51	75	2.52	58	2.52	45	2.52
	200	125	3.56	100	3.57	80	3.58	66	3.59
	400	166	5.06	136	5.08	113	5.09	95	5.11
	600	198	6.22	164	6.24	139	6.26	119	6.28
-10	500	111	3.30	86	3.09	63	2.90	T.A.	T.A.
	1000	168	5.47	134	5.22	106	4.98	86	4.76
	1500	213	7.23	174	6.96	142	6.71	118	6.47
-20	1200	132	4.54	100	4.20	78	3.90	T.A.	T.A.
	1500	153	5.43	118	5.05	94	4.72	73	4.43
	2000	186	6.79	147	6.38	119	6.01	95	5.68
	3000	241	9.21	197	8.75	162	8.33	135	7.95
-30	2000	140	5.47	107	5.03	83	4.65	T.A.	T.A.
	3000	186	7.65	146	7.12	117	6.65	94	6.25
	4000	225	9.62	181	9.04	148	8.51	121	8.05
-45	3500	133	7.02	102	6.44	T.A.	T.A.	T.A.	T.A.
	4000	147	7.87	114	7.25	89	6.71	69	6.25
	5000	171	9.51	136	8.82	108	8.22	87	7.70
	6000	194	11.07	156	10.32	126	9.66	103	9.10
-60	6000	114	9.78	88	9.02	68	8.36	T.A.	T.A.
	7000	126	11.17	100	10.34	79	9.63	63	9.02
	8000	138	12.51	111	11.63	89	10.87	73	10.22

SA = SIGHT ANGLE IN MILS
TOF = TIME OF FALL IN SECONDS
T.A. = TERRAIN AVOIDANCE

SIGHT ANGLES

MK 106 MOD 4 PRACTICE BOMB
MER/TER EJEC VEL
0 FT/SEC

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
0	100	128	2.87	105	2.90	88	2.93	76	2.96
	300	232	5.24	203	5.30	182	5.35	166	5.39
	500	317	6.96	284	7.04	259	7.10	241	7.14
-10	500	200	4.84	170	4.73	145	4.64	T.A.	T.A.
	600	234	5.63	203	5.53	176	5.44	157	5.38
	800	299	7.07	265	6.99	236	6.92	215	6.86
	1000	360	8.39	324	8.33	293	8.27	270	8.21
-20	1000	253	6.61	216	6.41	T.A.	T.A.	T.A.	T.A.
	1100	278	7.24	240	7.04	214	6.87	T.A.	T.A.
	1200	302	7.85	264	7.66	237	7.49	T.A.	T.A.

SA = SIGHT ANGLE IN MILS
TOF = TIME OF FALL IN SECONDS
T.A. = TERRAIN AVOIDANCE

SIGHT ANGLES

CBU-59/B (APAM)
MER/TER EJEC VEL
5.2 FT/SEC
1.2-SEC TIMER SET

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
MIL CORR AERO 20/7A		+7/+15		+6/+14		+6/+13		+5/+11	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
0	300	165	4.74	137	4.81	115	4.88	99	4.94
	500	218	6.41	185	6.51	160	6.60	141	6.69
	800	286	8.45	249	8.57	220	8.69	199	8.80
-10	700	161	4.92	129	4.69	102	4.48	81	4.28
	1000	215	6.73	178	6.53	146	6.34	123	6.16
	1500	299	9.41	256	9.26	221	9.11	193	8.97
-30	2000	194	7.37	153	6.85	123	6.39	T.A.	T.A.
	2500	245	9.45	200	8.92	166	8.43	137	7.99
	3000	294	11.49	246	10.96	210	10.48	179	10.03

SA = SIGHT ANGLE IN MILS
TOF = TIME OF FALL IN SECONDS
T.A. = TERRAIN AVOIDANCE

SIGHT ANGLES

CBU-59/B (APAM)
MER/TER EJEC VEL
5.2 FT/SEC
4.0-SEC TIMER SET

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
MIL CORR AERO 20/7A		+8/+17		+8/+16		+7/+15		+6/+14	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
0	700	221	7.13	185	7.22	157	7.31	136	7.41
	1000	268	9.05	228	9.20	198	9.34	174	9.49
-10	1500	229	8.08	188	7.76	153	7.44	126	7.13
	2000	287	10.54	240	10.27	201	10.00	171	9.73
-30	3000	209	9.14	164	8.34	129	7.60	F.A.	F.A.
	3500	245	11.07	195	10.23	156	9.43	125	8.69
	4000	281	13.01	228	12.16	186	11.35	152	10.58
-45	4000	172	9.80	132	8.76	101	7.84	F.A.	F.A.
	5000	221	13.34	175	12.18	139	11.10	110	10.10
	6000	270	16.98	222	15.79	183	14.66	150	13.58
-60	6200	161	15.12	127	13.70	100	12.39	T.A.	T.A.
	7000	185	17.94	151	16.49	122	15.12	98	13.82

SA = SIGHT ANGLE IN MILS
TOF = TIME OF FALL IN SECONDS
T.A. = TERRAIN AVOIDANCE
F.A. = FUZE ARMING

SIGHT ANGLES

ROCKEYE II
MER/TER EJEC VEL
6.0 FT/SEC

4.0-SEC TIMER SET

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
MIL CORR AERO 20/7A		+11/+10		+10/+9		+9/+8		+9/+8	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
0	800	241	7.79	204	7.92	175	8.05	153	8.18
	1000	273	9.03	233	9.19	203	9.35	179	9.50
-10	1500	235	8.14	193	7.87	159	7.59	132	7.31
	2000	294	10.58	247	10.36	209	10.13	178	9.90
-30	3000	216	9.31	171	8.57	136	7.87	108	7.22
	3500	252	11.22	203	10.46	165	9.73	133	9.03
	4000	289	13.13	237	12.38	196	11.65	162	10.93
-45	4000	178	10.04	138	9.06	107	8.17	83	7.35
	5000	228	13.54	184	12.49	148	11.49	118	10.54
	6000	277	17.10	231	16.04	192	15.01	160	14.01
-60	6200	167	15.36	134	14.07	107	12.85	T.A.	T.A.
	7000	191	18.12	158	16.80	130	15.55	106	14.34

SA = SIGHT ANGLE IN MILS
TOF = TIME OF FALL IN SECONDS
T.A. = TERRAIN AVOIDANCE

SIGHT ANGLES

2.75-INCH FFAR/WARHEAD M151

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
-10	1000	47	2.86	38	2.76	28	2.67	21	2.60
	1500	57	4.18	47	4.04	36	3.91	29	3.80
	2000	68	5.63	57	5.44	46	5.28	38	5.15
	2500	81	7.13	69	6.92	57	6.73	49	6.59
	3000	94	8.60	81	8.38	69	8.19	61	8.04
-20	1600	41	2.52	31	2.43	24	2.36	FRAG	FRAG
	1700	42	2.65	32	2.56	25	2.49	17	2.42
	2000	45	3.07	35	2.97	28	2.88	20	2.79
	2500	51	3.82	40	3.69	32	3.58	25	3.48
	3000	57	4.64	46	4.49	37	4.35	29	4.22
-30	2100	37	2.34	27	2.27	FRAG	FRAG	FRAG	FRAG
	2500	40	2.72	30	2.63	22	2.55	15	2.47
	3000	43	3.22	33	3.11	25	3.01	18	2.93
	4000	51	4.33	40	4.18	31	4.05	24	3.93
	4500	56	4.94	44	4.77	35	4.62	27	4.49
	5000	60	5.59	48	5.40	39	5.23	31	5.07
-45	3000	28	2.38	T.A.	T.A.	T.A.	T.A.	T.A.	T.A.
	3500	30	2.72	21	2.63	T.A.	T.A.	T.A.	T.A.
	4000	32	3.08	23	2.98	15	2.89	9	2.80
	5000	36	3.85	27	3.72	19	3.61	13	3.50
	6000	41	4.70	31	4.54	23	4.40	17	4.27
	7000	47	5.63	36	5.44	28	5.27	21	5.11
	8000	53	6.62	42	6.40	32	6.20	25	6.02

SA = SIGHT ANGLE IN MILS
TOF = TIME OF FALL IN SECONDS
T.A. = TERRAIN AVOIDANCE
FRAG = FRAGMENT HIT PROBABILITY

SIGHT ANGLES

2.75-INCH FFAR/WARHEADS MK 1 AND 5
MK 1 MOD 2 TRAINING HEAD

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
-10	1000	44	2.56	35	2.48	FRAG	FRAG	FRAG	FRAG
	1500	52	3.69	42	3.57	31	3.46	24	3.38
	2000	60	4.98	49	4.82	39	4.67	31	4.56
	2500	70	6.41	58	6.21	47	6.03	39	5.88
	3000	82	7.89	69	7.66	57	7.46	49	7.30
-20	1600	39	2.26	FRAG	FRAG	FRAG	FRAG	FRAG	FRAG
	1800	41	2.49	30	2.42	23	2.35	FRAG	FRAG
	2000	42	2.72	31	2.64	24	2.57	17	2.50
	2500	46	3.34	36	3.24	28	3.15	20	3.07
	3000	51	4.03	40	3.90	31	3.79	24	3.69
-30	2200	36	2.19	FRAG	FRAG	FRAG	FRAG	FRAG	FRAG
	2500	37	2.42	27	2.35	FRAG	FRAG	FRAG	FRAG
	3000	40	2.83	30	2.75	22	2.68	15	2.61
	4000	46	3.75	35	3.63	27	3.52	19	3.43
	4500	50	4.26	38	4.12	29	3.99	22	3.88
	5000	53	4.80	41	4.64	32	4.49	24	4.37
-45	3100	27	2.20	FRAG	FRAG	FRAG	FRAG	FRAG	FRAG
	3500	28	2.42	19	2.36	FRAG	FRAG	FRAG	FRAG
	4000	30	2.72	20	2.64	13	2.57	7	2.50
	5000	33	3.34	24	3.24	16	3.15	9	3.07
	6000	37	4.03	27	3.91	19	3.79	12	3.69
	7000	41	4.80	31	4.64	22	4.50	15	4.37
	8000	45	5.63	34	5.44	25	5.27	18	5.11

SA = SIGHT ANGLE IN MILS
TOF = TIME OF FALL IN SECONDS
FRAG = FRAGMENT HIT PROBABILITY

SIGHT ANGLES

5.00-INCH ZUNI/MOTOR MARK 71 MOD 0
WARHEAD MARK 24

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
-10	1500	42	3.54	33	3.40	24	3.28	18	3.19
	2000	49	4.63	40	4.45	30	4.30	24	4.18
	2500	57	5.75	46	5.53	37	5.35	30	5.21
	3000	64	6.90	54	6.64	43	6.43	36	6.26
	3500	73	8.06	61	7.76	50	7.52	43	7.34
	4000	81	9.21	69	8.89	57	8.62	50	8.43
-20	2100	34	2.70	FRAG	FRAG	FRAG	FRAG	FRAG	FRAG
	2500	37	3.16	28	3.05	21	2.96	14	2.88
	3000	41	3.75	32	3.62	24	3.51	18	3.41
	3500	45	4.37	36	4.22	27	4.09	21	3.97
	4000	49	5.00	40	4.83	31	4.68	24	4.55
	4500	53	5.65	44	5.46	34	5.29	28	5.14
	5000	58	6.32	48	6.11	38	5.91	32	5.75
	5500	63	7.01	52	6.77	42	6.55	35	6.38
	6000	67	7.71	57	7.44	46	7.21	39	7.02
-30	3000	32	2.68	23	2.59	FRAG	FRAG	FRAG	FRAG
	3500	34	3.08	25	2.98	18	2.89	12	2.81
	4000	37	3.49	27	3.37	20	3.27	14	3.18
	4500	40	3.91	30	3.78	22	3.67	16	3.57
	5000	43	4.34	32	4.20	24	4.07	18	3.96
	5500	45	4.79	35	4.63	27	4.49	20	4.36
	6000	48	5.24	37	5.07	29	4.91	22	4.78
	6500	51	5.71	40	5.51	31	5.35	24	5.20
	7000	54	6.18	43	5.97	34	5.79	27	5.63
-45	4000	23	2.55	FRAG	FRAG	FRAG	FRAG	FRAG	FRAG
	4500	24	2.83	16	2.75	FRAG	FRAG	FRAG	FRAG
	5000	26	3.12	18	3.03	11	2.94	5	2.86
	5500	27	3.41	19	3.31	12	3.21	7	3.13
	6000	29	3.71	21	3.60	13	3.49	8	3.40
	6500	31	4.02	22	3.89	15	3.78	9	3.68
	7000	32	4.33	24	4.19	16	4.07	10	3.96
	7500	34	4.64	25	4.50	17	4.37	12	4.25
	8000	36	4.96	27	4.81	19	4.67	13	4.54

SA = SIGHT ANGLE IN MILS
TOF = TIME OF FALL IN SECONDS
FRAG = FRAGMENT HIT PROBABILITY

SIGHT ANGLES

5.00-INCH ZUNI/MOTOR MARK 71 MOD 0
WARHEAD MARK 32

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
-10	1000	35	2.50	27	2.41	FRAG	FRAG	FRAG	FRAG
	1500	42	3.59	34	3.45	25	3.33	18	3.23
	2000	50	4.73	40	4.54	31	4.39	24	4.26
	2500	58	5.91	48	5.69	38	5.49	31	5.35
	3000	66	7.13	55	6.86	45	6.64	38	6.47
-20	1600	30	2.16	FRAG	FRAG	FRAG	FRAG	FRAG	FRAG
	2000	33	2.61	24	2.52	18	2.45	12	2.38
	2500	37	3.20	28	3.09	21	2.99	15	2.91
	3000	41	3.81	32	3.68	24	3.57	18	3.47
	3500	45	4.46	36	4.30	28	4.17	21	4.05
	4000	50	5.12	40	4.94	32	4.79	25	4.66
	4500	55	5.82	45	5.61	35	5.43	29	5.29
	5000	59	6.53	50	6.31	39	6.10	33	5.94
-30	2500	29	2.30	21	2.23	FRAG	FRAG	FRAG	FRAG
	3000	32	2.70	23	2.61	16	2.54	10	2.47
	3500	35	3.11	25	3.01	18	2.92	12	2.84
	4000	37	3.54	28	3.42	20	3.32	14	3.22
	4500	40	3.98	30	3.84	23	3.73	16	3.62
	5000	43	4.43	33	4.28	25	4.15	18	4.03
	5500	46	4.90	35	4.73	27	4.59	20	4.46
	6000	49	5.38	38	5.20	30	5.04	23	4.90
-45	3500	21	2.29	13	2.22	FRAG	FRAG	T.A.	T.A.
	4000	23	2.57	15	2.49	9	2.42	3	2.36
	4500	24	2.86	16	2.77	10	2.69	4	2.62
	5000	26	3.16	18	3.06	11	2.97	5	2.89
	5500	28	3.46	19	3.35	12	3.26	7	3.17
	6000	29	3.77	21	3.65	14	3.55	8	3.45
	6500	31	4.09	22	3.96	15	3.84	9	3.74
	7000	33	4.41	24	4.27	16	4.15	11	4.03

SA = SIGHT ANGLE IN MILS
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T.A. = TERRAIN AVOIDANCE
FRAG = FRAGMENT HIT PROBABILITY

SIGHT ANGLES

5.00-INCH ZUNI/MOTOR MARK 71 MOD 0
WARHEAD MARK 63

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
-10	1500	45	3.70	36	3.55	27	3.43	20	3.33
	2000	52	4.80	43	4.61	33	4.45	26	4.33
	2500	60	5.91	50	5.69	40	5.50	32	5.35
	3000	68	7.02	57	6.76	47	6.54	39	6.37
	3500	77	8.13	65	7.84	54	7.60	46	7.41
	4000	85	9.23	72	8.91	61	8.65	53	8.44
-20	2500	39	3.33	30	3.21	23	3.11	16	3.02
	3000	44	3.95	34	3.80	27	3.68	20	3.57
	3500	48	4.57	38	4.41	30	4.27	23	4.14
	4000	53	5.22	43	5.03	34	4.87	27	4.73
	4500	57	5.87	47	5.66	38	5.48	31	5.32
	5000	62	6.53	52	6.30	41	6.10	35	5.93
	5500	67	7.20	56	6.95	45	6.73	38	6.54
	6000	72	7.88	61	7.61	50	7.37	42	7.16
-30	3000	34	2.83	25	2.74	FRAG	FRAG	FRAG	FRAG
	3500	37	3.25	27	3.14	20	3.04	13	2.95
	4000	40	3.68	30	3.55	22	3.44	16	3.34
	4500	43	4.12	32	3.98	25	3.85	18	3.74
	5000	46	4.57	35	4.41	27	4.27	20	4.14
	5500	49	5.02	38	4.84	29	4.69	22	4.55
	6000	52	5.48	41	5.29	32	5.12	25	4.97
	6500	55	5.95	43	5.74	34	5.56	27	5.39
	7000	58	6.42	46	6.20	37	6.00	30	5.83
-45	4000	24	2.71	16	2.62	FRAG	FRAG	FRAG	FRAG
	4500	26	3.00	18	2.91	FRAG	FRAG	FRAG	FRAG
	5000	28	3.31	19	3.20	12	3.10	7	3.01
	5500	30	3.61	21	3.49	14	3.39	8	3.29
	6000	31	3.92	23	3.80	15	3.68	9	3.57
	6500	33	4.24	24	4.10	17	3.97	11	3.86
	7000	35	4.56	26	4.41	18	4.27	12	4.15
	7500	37	4.89	28	4.72	20	4.58	13	4.44
	8000	39	5.21	29	5.04	21	4.89	15	4.74

SA = SIGHT ANGLE IN MILS
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FRAG = FRAGMENT HIT PROBABILITY

SIGHT ANGLES

5.00-INCH ZUNI/MOTOR MARK 71 MOD 1
WARHEAD MARK 24

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
-10	1500	52	3.01	43	2.92	34	2.85	27	2.78
	2000	57	3.80	48	3.69	38	3.59	31	3.51
	2500	62	4.62	52	4.48	42	4.36	35	4.27
	3000	67	5.46	56	5.29	46	5.16	39	5.05
	3500	72	6.32	61	6.13	50	5.97	43	5.85
	4000	77	7.19	65	6.97	55	6.80	48	6.67
-20	2100	45	2.46	35	2.40	FRAG	FRAG	FRAG	FRAG
	2500	47	2.81	37	2.73	30	2.67	23	2.61
	3000	50	3.25	40	3.16	32	3.08	25	3.01
	3500	53	3.70	43	3.60	34	3.51	27	3.43
	4000	55	4.16	46	4.05	37	3.95	30	3.86
	4500	58	4.63	49	4.51	39	4.40	32	4.30
	5000	61	5.12	51	4.98	41	4.85	35	4.75
	5500	64	5.61	54	5.46	44	5.32	37	5.21
	6000	67	6.12	57	5.95	46	5.80	39	5.67
-30	3000	41	2.47	31	2.41	FRAG	FRAG	FRAG	FRAG
	3500	43	2.77	33	2.70	25	2.64	19	2.58
	4000	45	3.08	35	3.00	27	2.93	20	2.86
	4500	47	3.40	37	3.31	28	3.23	22	3.16
	5000	49	3.72	38	3.62	30	3.53	23	3.45
	5500	51	4.05	40	3.94	31	3.84	24	3.76
	6000	53	4.38	42	4.26	33	4.16	26	4.07
	6500	55	4.72	43	4.59	34	4.48	28	4.38
	7000	57	5.06	45	4.93	36	4.81	29	4.70
-45	4000	29	2.39	FRAG	FRAG	FRAG	FRAG	FRAG	FRAG
	4500	30	2.61	22	2.55	15	2.49	FRAG	FRAG
	5000	32	2.83	23	2.76	15	2.70	10	2.64
	5500	33	3.05	24	2.98	16	2.91	10	2.84
	6000	34	3.28	25	3.20	17	3.12	11	3.05
	6500	35	3.51	26	3.42	18	3.34	12	3.26
	7000	37	3.74	27	3.64	19	3.56	13	3.48
	7500	38	3.97	28	3.87	20	3.78	14	3.70
	8000	39	4.21	30	4.11	21	4.01	15	3.92

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FRAG = FRAGMENT HIT PROBABILITY

SIGHT ANGLES

5.00-INCH ZUNI/MOTOR MARK 71 MOD 1
WARHEAD MARK 32

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
-10	1000	48	2.26	39	2.20	FRAG	FRAG	FRAG	FRAG
	1500	53	3.06	44	2.97	34	2.89	27	2.83
	2000	58	3.91	48	3.79	38	3.69	31	3.61
	2500	63	4.80	53	4.65	43	4.53	36	4.43
	3000	69	5.73	58	5.55	47	5.40	40	5.29
-20	1600	42	2.06	FRAG	FRAG	FRAG	FRAG	FRAG	FRAG
	2000	44	2.40	34	2.34	28	2.29	21	2.24
	2500	47	2.85	37	2.77	30	2.71	23	2.65
	3000	50	3.31	40	3.22	32	3.15	25	3.07
	3500	53	3.80	43	3.69	35	3.60	28	3.52
	4000	56	4.30	46	4.18	37	4.07	30	3.98
	4500	59	4.82	49	4.68	40	4.56	33	4.46
	5000	63	5.35	53	5.21	42	5.07	36	4.96
-30	2500	39	2.19	29	2.14	FRAG	FRAG	FRAG	FRAG
	3000	41	2.50	31	2.43	24	2.38	17	2.32
	3500	43	2.81	33	2.74	25	2.67	19	2.61
	4000	45	3.14	35	3.06	27	2.98	20	2.92
	4500	48	3.47	37	3.38	29	3.30	22	3.22
	5000	50	3.82	39	3.72	30	3.63	23	3.54
	5500	52	4.17	41	4.06	32	3.96	25	3.87
	6000	54	4.54	42	4.41	34	4.30	27	4.21
-45	3500	28	2.20	19	2.14	FRAG	FRAG	FRAG	FRAG
	4000	29	2.42	20	2.36	14	2.30	8	2.25
	4500	30	2.64	22	2.58	15	2.52	9	2.46
	5000	32	2.87	23	2.80	16	2.73	10	2.67
	5500	33	3.10	24	3.03	17	2.96	11	2.89
	6000	34	3.34	25	3.26	18	3.18	12	3.11
	6500	36	3.59	26	3.50	19	3.42	13	3.34
	7000	37	3.84	28	3.74	20	3.65	14	3.57

SA = SIGHT ANGLE IN MILS
TOF = TIME OF FALL IN SECONDS
FRAG = FRAGMENT HIT PROBABILITY

SIGHT ANGLES

5.00-INCH ZUNI/MOTOR MARK 71 MOD 1
WARHEAD MARK 63

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
-10	1500	55	3.18	46	3.09	36	3.00	29	2.93
	2000	60	4.04	50	3.91	40	3.81	33	3.72
	2500	66	4.91	55	4.76	45	4.63	38	4.53
	3000	71	5.80	60	5.62	50	5.47	42	5.36
	3500	77	6.71	65	6.50	55	6.33	47	6.20
	4000	83	7.62	71	7.39	60	7.20	52	7.06
-20	2100	47	2.61	36	2.53	FRAG	FRAG	FRAG	FRAG
	2500	49	2.98	39	2.89	32	2.82	24	2.75
	3000	52	3.46	42	3.36	34	3.27	27	3.19
	3500	56	3.95	45	3.83	37	3.74	30	3.65
	4000	59	4.45	49	4.32	39	4.21	32	4.11
	4500	62	4.96	52	4.82	42	4.69	35	4.58
	5000	65	5.49	55	5.33	45	5.19	38	5.07
	5500	69	6.02	58	5.85	47	5.69	40	5.56
	6000	72	6.56	61	6.37	50	6.20	43	6.06
-30	3000	43	2.61	33	2.54	FRAG	FRAG	FRAG	FRAG
	3500	45	2.95	35	2.86	27	2.79	20	2.72
	4000	47	3.28	37	3.19	29	3.11	22	3.04
	4500	50	3.63	39	3.53	30	3.44	23	3.35
	5000	52	3.98	41	3.87	32	3.77	25	3.68
	5500	54	4.34	43	4.21	34	4.10	27	4.01
	6000	56	4.70	45	4.57	36	4.45	29	4.34
	6500	58	5.07	47	4.92	37	4.80	30	4.68
	7000	61	5.44	49	5.29	39	5.15	32	5.03
-45	4000	31	2.53	FRAG	FRAG	FRAG	FRAG	FRAG	FRAG
	4500	32	2.77	23	2.70	16	2.63	FRAG	FRAG
	5000	33	3.01	24	2.93	17	2.86	11	2.79
	5500	35	3.25	26	3.17	18	3.09	12	3.01
	6000	36	3.50	27	3.41	19	3.32	13	3.24
	6500	37	3.75	28	3.65	20	3.56	14	3.47
	7000	39	4.01	29	3.90	21	3.80	15	3.71
	7500	40	4.27	31	4.15	22	4.04	16	3.95
	8000	42	4.53	32	4.40	23	4.29	17	4.19

SA = SIGHT ANGLE IN MILS
TOF = TIME OF FALL IN SECONDS
FRAG = FRAGMENT HIT PROBABILITY

SIGHT ANGLES

MK 77 MODS 2 AND 4 FIRE BOMBS
AERO 20 EJEC VEL
18.0 FT/SEC

REL ANGLE (DEG)	REL ALT (FT)	RELEASE TRUE AIRSPEED (KNOTS)							
		350		400		450		500	
		SA	TOF	SA	TOF	SA	TOF	SA	TOF
0	100	119	2.10	95	2.12	76	2.13	62	2.15
	200	151	3.23	124	3.25	103	3.28	87	3.31
	500	223	5.56	189	5.62	163	5.67	143	5.73
-10	500	147	3.34	118	3.17	93	3.01	T.A.	T.A.
	1000	220	5.86	183	5.67	152	5.50	128	5.33
	1500	283	7.98	241	7.82	206	7.65	178	7.50
-20	1200	180	4.99	143	4.68	118	4.41	T.A.	T.A.
	1500	210	6.09	170	5.77	142	5.47	117	5.20
	2000	256	7.83	212	7.50	180	7.19	152	6.90
-30	2000	197	6.34	159	5.93	130	5.56	T.A.	T.A.
	2500	231	7.83	190	7.39	158	6.98	132	6.61
	3000	264	9.28	220	8.81	185	8.39	157	8.00

SA = SIGHT ANGLE IN MILS
TOF = TIME OF FALL IN SECONDS
T.A. = TERRAIN AVOIDANCE

SIGHT ANGLES

MK 12 GUN/MK 4 GUN POD
20 MM STRAFING SIGHT ANGLES

REL ANGLE (DEG)	REL AIRSPEED (KTAS)	COMMENCE FIRE ALTITUDE AGL (FEET)	SIGHT ANGLE (MILS)	TIME OF FALL (SEC)
-10	450	2000 1500 1000	47 28 13	6.54 4.49 2.41
-20	450	3000 2000	30 13	5.02 2.56
-30	450	4000 3000	23 12	4.42 2.68
-45	450	6000 5000 4500	20 13 10	4.85 3.54 2.94
-60	450	8000 7000	15 11	5.55 4.42

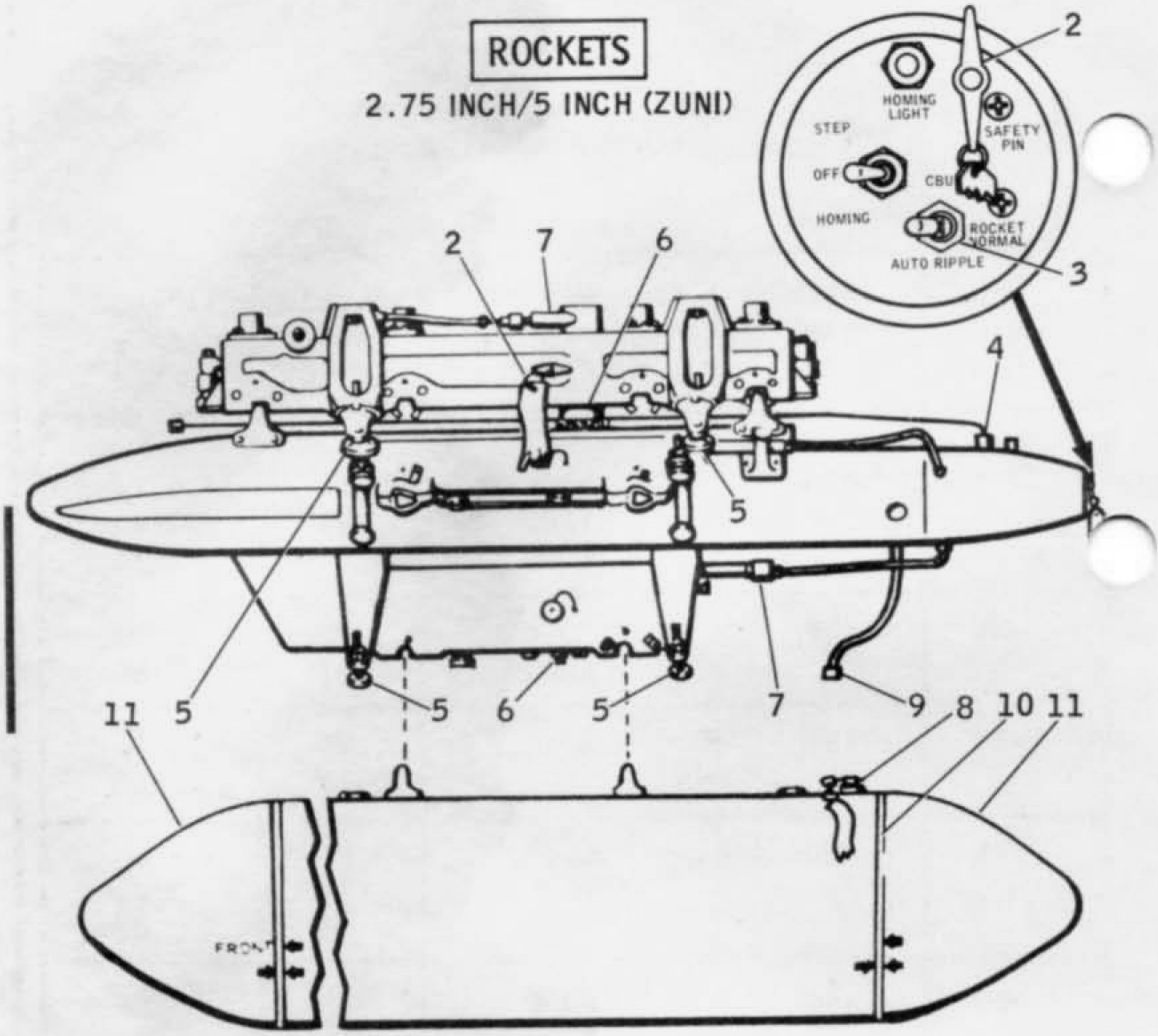
NOTE

CEASE FIRE ALTITUDES MUST BE PREDICATED ON TERRAIN/ FRAG AVOIDANCE.

SETTINGS ARE BASED ON STANDARD DAY, 18,000-POUND AIRCRAFT. ±1 MIL CORRECTION FOR EACH 1000-POUND GROSS WEIGHT INCREASE OR DECREASE.

ROCKETS

2.75 INCH/5 INCH (ZUNI)



1. ALL ARMAMENT SWITCHES OF/SAFE (COCKPIT)
2. SAFETY PINS INSTALLED
3. MER/TER MODE SELECTOR SWITCH ROCKET NORMAL/RKTS
4. (IF APPLICABLE) MER/TER ADAPTER HARNESS CONNECTED
5. SWAYBRACES ADJUSTED
6. EJECTOR FOOT/FEET ADJUSTED
7. CARTRIDGES INSTALLED
8. DETENT SAFETY PIN/SHORTING BUTTON INSTALLED
9. ROCKET HARNESS NOT CONNECTED
10. ROCKET POD MODE SEL SW AS REQD (BEFORE TAIL CONE IS INSTALLED)
11. (AS APPLICABLE) NOSE/TAIL CONE INSTALLED

DD1TB-9-B

ROCKETS

PREFLIGHT/RELEASE

1. Gunsight ..... _____
2. Func Sel Sw ..... ROCKETS
3. Sta Sel Sw ..... AS REQD
4. Bomb Arm Sw ..... NOSE/TAIL (MER/TER W/O AUTO HOME)
5. Interval ..... AS REQD
6. Master Arm Sw ..... ON
7. Trigger ..... SQUEEZE

NOTE

- Alternate procedure for RKT firing is to place FUNC SEL SW to GM UNARM and depress BOMB BUTTON.
- Walleye NORM/TEST switch must be in NORM to fire rockets.

JETTISONING PROCEDURE

NORMAL

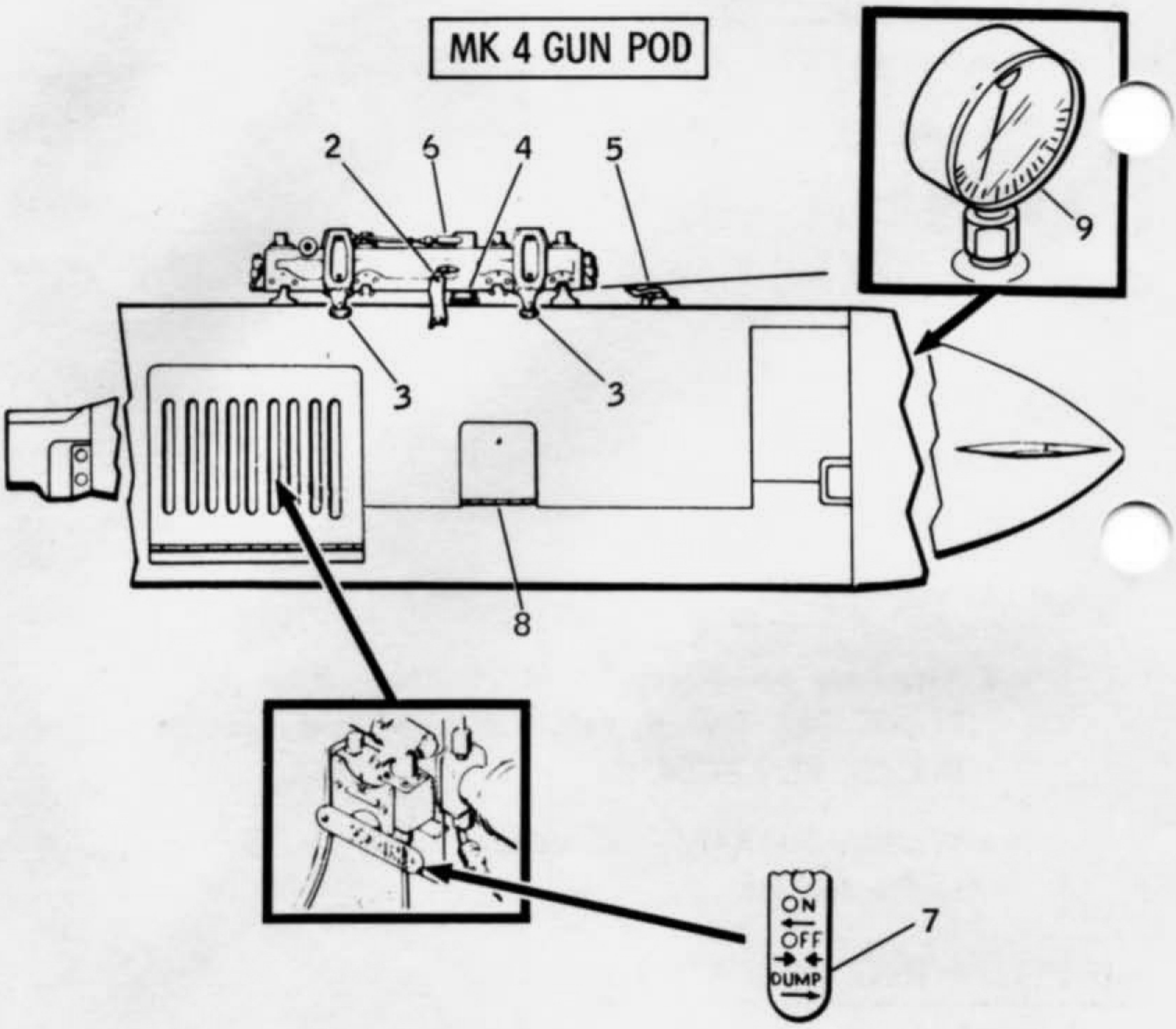
1. Func Sel Sw ..... BOMBS & GM ARM
2. Sta Sel Sw ..... AS REQD
3. Master Arm Sw ..... ON
4. Bomb Button ..... DEPRESS

EMERGENCY

1. Emer Sel Sw ..... AS REQD
2. EMER BOMB T-Handle ..... PULL

NOTE

Use of EMER BOMB T-handle will jettison MER/TER in addition to the ROCKET PODS.



1. ALL ARMAMENT SWITCHES OFF/SAFE (COCKPIT)
2. SAFETY PIN INSTALLED
3. SWAYBRACES ADJUSTED
4. EJECTOR FOOT ADJUSTED
5. GUN POD HARNESS CONNECTED
6. CARTRIDGES INSTALLED
7. AIR VALVE HANDLE - DUMP
8. MAGAZINE LOADED; GUNS ARMED
9. PNEUMATIC RESERVOIR PRESSURE 3200 ±200 PSI (VIEWED ON RIGHT SIDE)

DD1TB-10-A

GUNS

PREFLIGHT MK 12 GUNS

1. Guncharger Air Bottles ..... 1200 PSI MIN

FIRING MK 12 GUNS

1. Gunsight ..... SET
2. Func Sel Sw/Sta Sel Sw ..... OFF
3. Guns Sw ..... READY
4. Master Arm Sw ..... ON
5. Trigger ..... SQUEEZE

FIRING MK 4 GUN POD

1. Gunsight ..... SET
2. Func Sel Sw/Sta Sel Sw ..... OFF
3. Gun Pod Sta Sel Sw ..... AS REQD
4. Gun Pod Charge Sw ..... CHARGE
5. Master Arm Sw ..... ON
6. Trigger ..... SQUEEZE

WARNING

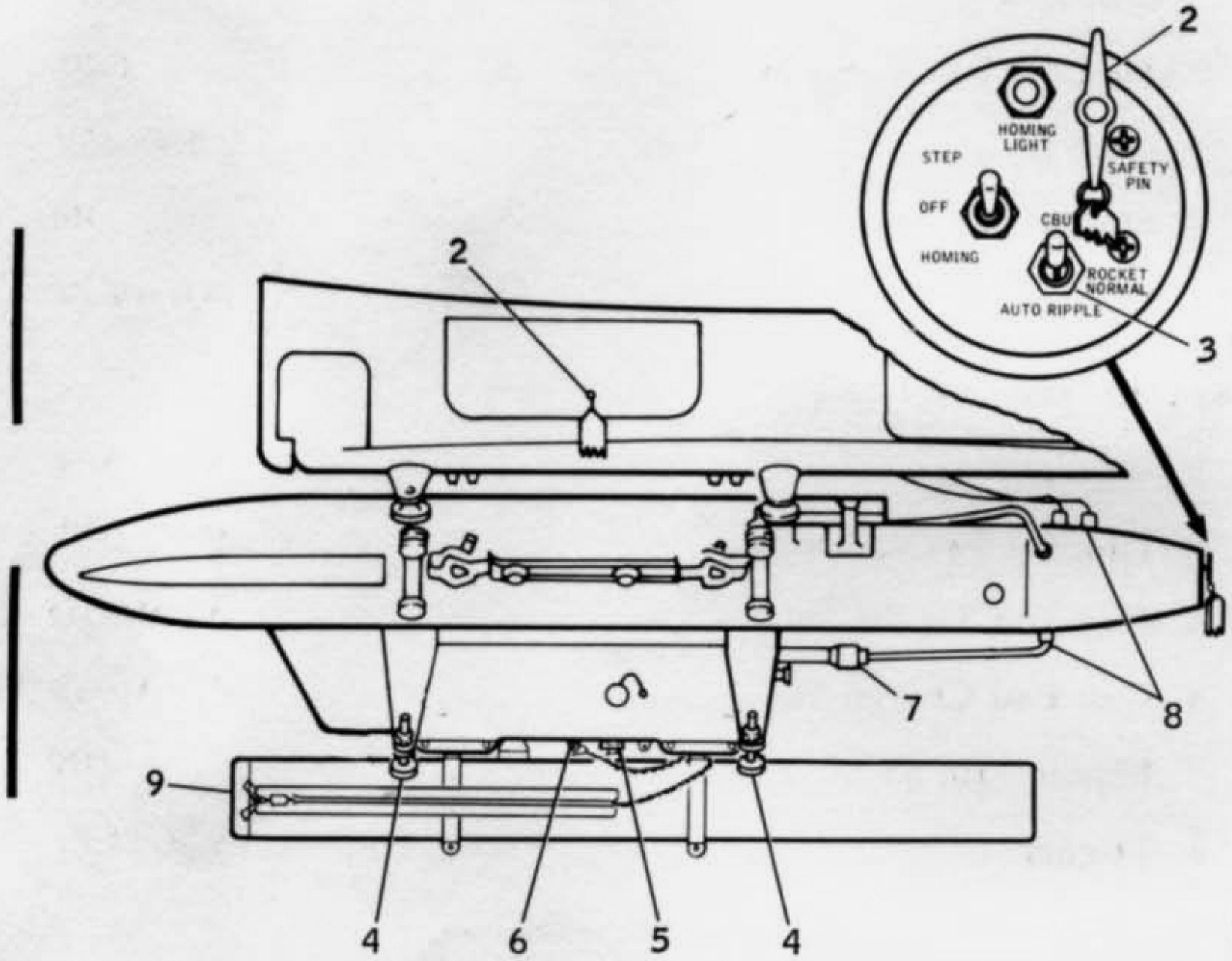
- After clearing MK 12/MK 4 GUNS do not attempt to recharge due to the possibility of ramming a live round into a round that may possibly be jammed.
- Do not fire Centerline Gun Pod simultaneously with either aircraft guns or wing mounted pods.

NOTE

Walleye NORM/TEST switch must be in NORM to fire guns.

PYROTECHNICS

MK 24 FLARE ON MER/TER

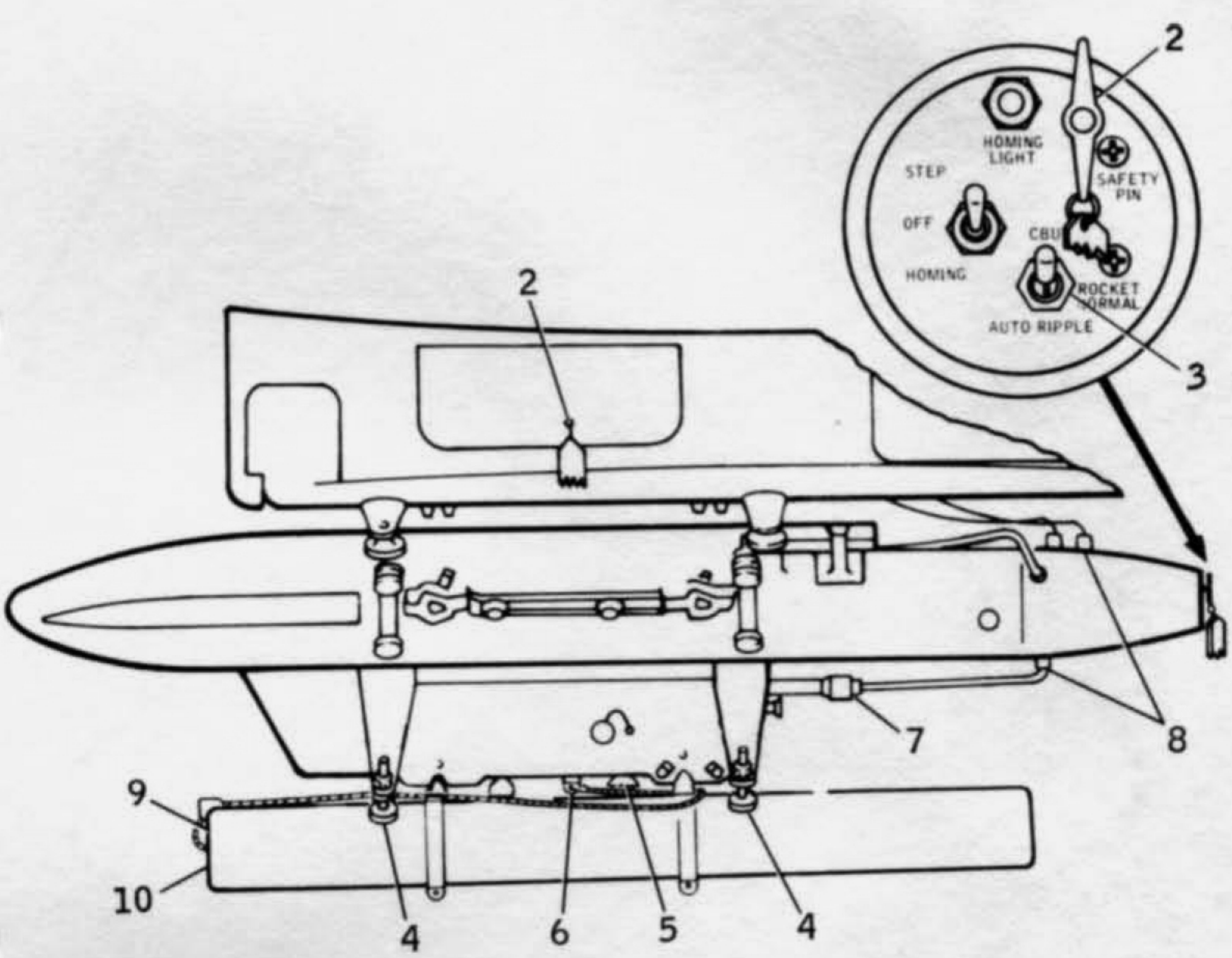


1. ALL ARMAMENT SWITCHES OFF/SAFE (COCKPIT)
2. MECH/ELECT SAFETY PINS INSTALLED
3. MODE SELECTOR SWITCH SET
4. SWAYBRACES ADJUSTED; JAMNUTS TIGHT
5. EJECTOR FOOT POSITIONED
6. LANYARD CONNECTED TO SOLENOID/CLIP
7. CARTRIDGE(S) INSTALLED; BREECH CAP(S) TIGHT
8. ADAPTER HARNESS CONNECTED
9. EJECTION/IGNITION DIALS SET

DD1TB-32-C

PYROTECHNICS

MK 45 FLARE ON MER/TER

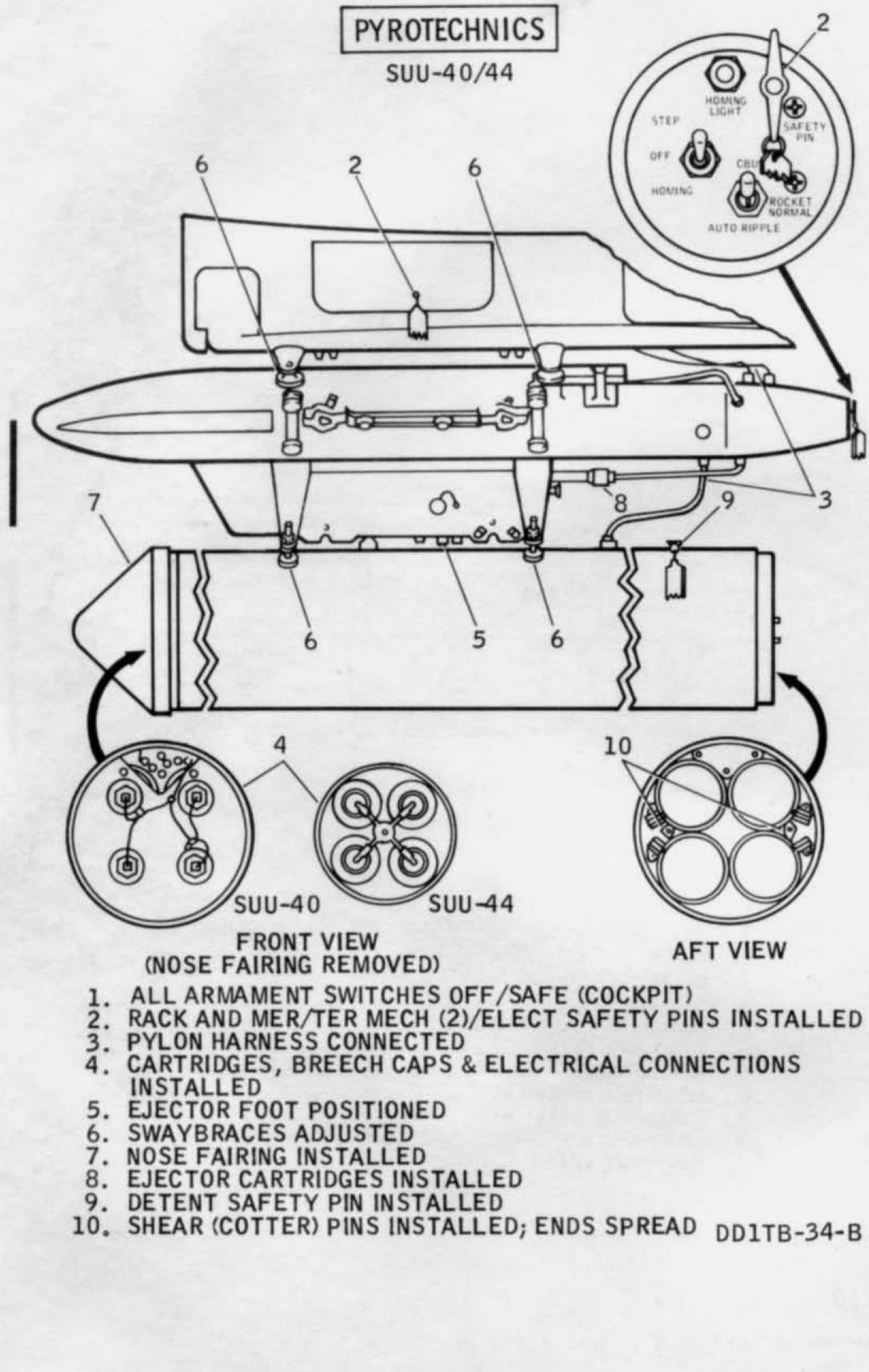


1. ALL ARMAMENT SWITCHES OFF/SAFE (COCKPIT)
2. MECH/ELECT SAFETY PINS INSTALLED
3. MODE SELECTOR SWITCH SET
4. SWAYBRACES ADJUSTED; JAMNUTS TIGHT
5. EJECTOR FOOT POSITIONED
6. LANYARD CONNECTED TO SOLENOID/CLIP
7. CARTRIDGE(S) INSTALLED; BREECH CAP(S) TIGHT
8. ADAPTER HARNESS CONNECTED
9. EJECTION DIAL SET
10. LANYARD SNAPHOOK NOT CONNECTED TO SPLIT KEYRING

DD1TB-33-C

PYROTECHNICS

SUU-40/44



FRONT VIEW
(NOSE FAIRING REMOVED)

AFT VIEW

1. ALL ARMAMENT SWITCHES OFF/SAFE (COCKPIT)
2. RACK AND MER/TER MECH (2)/ELECT SAFETY PINS INSTALLED
3. PYLON HARNESS CONNECTED
4. CARTRIDGES, BREECH CAPS & ELECTRICAL CONNECTIONS INSTALLED
5. EJECTOR FOOT POSITIONED
6. SWAYBRACES ADJUSTED
7. NOSE FAIRING INSTALLED
8. EJECTOR CARTRIDGES INSTALLED
9. DETENT SAFETY PIN INSTALLED
10. SHEAR (COTTER) PINS INSTALLED; ENDS SPREAD

DD1TB-34-B

FLARES MK 24/45

RELEASE PROCEDURES

1. Sta Sel Sw . . . . . READY
2. Func Sel Sw . . . . . BOMBS AND GM ARM
3. Mech Fuze Sw . . . . . ARM NOSE AND TAIL
4. Master Arm Sw . . . . . ON
5. Bomb Button . . . . . DEPRESS

FLARE RELEASE ALTITUDES

MK 24 FLARES

FLARE RELEASE ALTITUDE (FEET) AGL VERSUS FUZE SETTING FOR 1000-FOOT BURNOUT ALTITUDE						
	IGNITION FUZE SETTINGS — SEC					
EJECTION FUZE SETTING — SEC	0	10	15	20	25	30
10	3500	3575	3650	3725	3800	
15	4400	4475	4550	4625	4700	
20	5400	5475	5550	5625	5700	
25	6400	6475	6550	6625	6700	
30	7400	7475	7550	7625	7700	

MK 45 FLARES

APPROXIMATE RELEASE ALTITUDES FOR EJECTION AT 2500 FT AGL						
FUZE SETTINGS — SEC		GROUND ELEVATION				
		0	1.0	2.0	3.0	4.0
ALTITUDE LOSS PRIOR TO IGNITION	500	2900	3900	4900	5900	6900
	1000	3300	4300	5300	6400	7400
	2000	4200	5300	6400	7500	8600
	3000	5100	6300	7400	8700	9800
	4000	5900	7100	8400	9600	11,000
	5000	6700	8000	9300	10,500	12,000

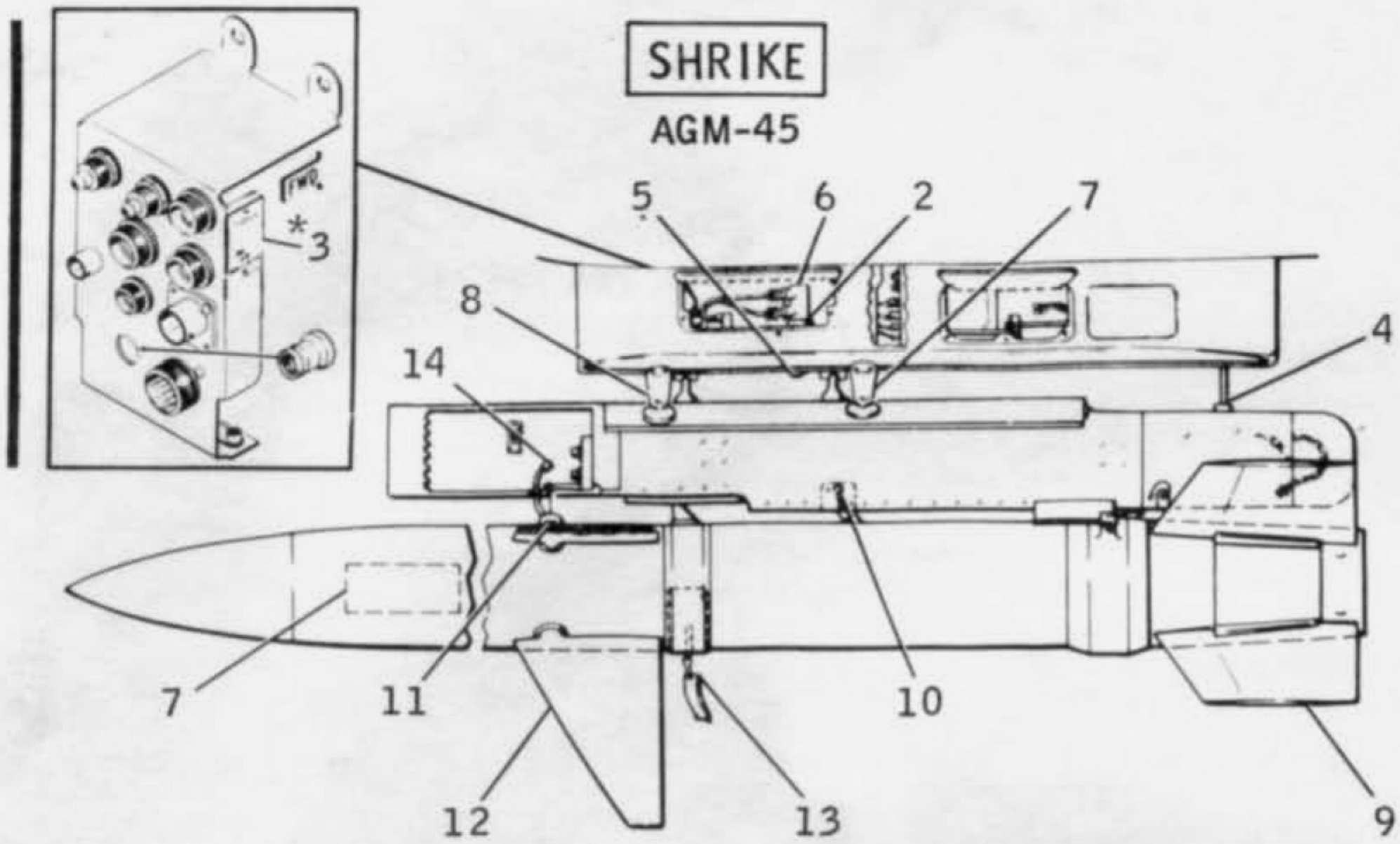
SUU-40/44 WITH MK 24 OR MK 45 FLARES

RELEASE PROCEDURES

1. Sta Sel Sw . . . . . READY
2. Func Sel Sw . . . . . ROCKETS
3. Master Arm Sw . . . . . ON
4. Trigger . . . . . SQUEEZE

NOTE

Alternate procedure for SUU-40 firing is to place Func Sel Sw to GM UNARM and depress Bomb Button.



1. ALL ARMAMENT SWITCHES OFF/SAFE (COCKPIT)
2. SAFETY PIN INSTALLED
*3. FIRING PLUG IN MISSILE POSITION
4. PYLON HARNESS CONNECTED
5. EJECTOR FOOT POSITIONED
6. EJECTOR CARTRIDGES INSTALLED
7. ACCESS DOOR SECURED
8. SWAYBRACES TIGHTENED
9. FINS INSTALLED AND SECURE (4)
10. DETENT HANDLE LOCKED POSITION
11. UMBILICAL CONNECTOR IN HOOKS
12. WINGS (3) INSTALLED
13. MISSILE ARM-SAFE LEVER SAFE: SAFETY PIN INSTALLED
14. UMBILICAL NOT CONNECTED (WARNING: PRIOR TO CONNECTING PERFORM STRAY VOLTAGE CHECK)

*DOES NOT APPLY TO A-4M AIRCRAFT REWORKED PER ECP 1120/AFC 538

DD1TB-12-B

SHRIKE

PREFLIGHT

1. Firing Plug on Ejector Rack Panel in MISSILE Position.

WARNING

If firing plug is in the BOMB position, the AERO 5 Series rack will be ejected when a FIRE signal is received.

AERO 5 SERIES

1. Launcher ..... SECURE AND ALIGNED ON RACK
2. Launcher Detent ..... FORWARD OF MISSILE TAB
3. Detent Handle ..... DOWN AND LOCKED
4. Shrike Electrical Connector (J-16) .... SECURELY MATED— NO TENSION OR TWIST IN RETENTION CABLE
5. Missile Umbilical ..... MATED TO LAUNCHER
6. Weapon Adapter Module .... BAL 1 AND 2 SET AS REQD

INFLIGHT

1. CP-741/A Control Panel ..... SET
2. Inflight Computer Check ..... COMPLETE
3. AWE-1 ..... AS REQD

DELIVERY

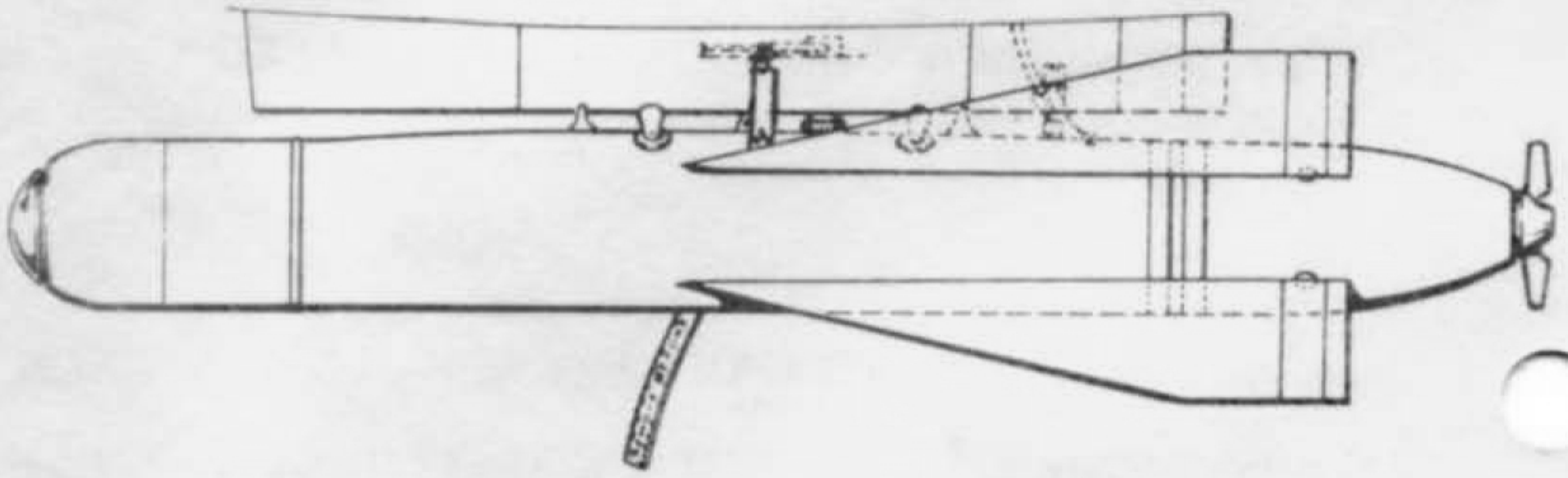
1. Func Sel Sw ..... BOMBS & GM ARM OR CMPTR
2. Sta Sel Sw ..... AS REQD
3. Master Arm Sw ..... ON

NOTE

Master arm switch ON is not required for ATM-45A captive SHRIKE.

4. Bomb Button ..... DEPRESS AND HOLD TO FIRE OR INITIATE COMPUTER DELIVERY

WALLEYE



1. WALLEYE GROUND TEST SWITCH NORMAL
2. SAFETY PIN(S) INSTALLED
3. SWAYBRACES ADJUSTED
4. EJECTOR FOOT POSITIONED
5. UMBILICAL LANYARD ATTACHED
6. UMBILICAL CONNECTOR ATTACHED TO WEAPON
7. TEAR STRIP LANYARD CONNECTED
8. CARTRIDGES INSTALLED
9. FIRING PLUG BOMB
10. LENS CLEAN
11. NOSE COVER INSTALLED
12. ACCESS DOOR SECURED
13. MARMON CLAMP SECURE
14. WINGS AND FINS SECURE
15. RAT NOT DAMAGED
16. WEAPON SECURE

DD1TB-13

WALLEYE

PREFLIGHT/COCKPIT

1. Guns Sw ..... SAFE
2. Master Arm Sw ..... OFF

PRETAXI CHECK

1. DSM-77 Check ..... COMPLETE
2. AWW-1/4 HVDC Check ..... COMPLETE
3. Sta Sel Switches ..... OFF

INFLIGHT CHECK

1. Boresight Check ..... COMPLETE

TARGET AREA CHECK

1. Normal/Test Sw ..... NORM
2. TACAN Sw ..... REC
3. AWW-1/4 ..... BRIEFED OPTION
4. AWE-1 ..... OFF
5. Guns Sw ..... SAFE
6. Gunsight ..... ON
7. Stab. Aug ..... ON
8. Sta Sel Sw ..... READY
9. Func Sel Sw ..... BOMBS & GM ARM
10. CP-741/A Control Panel ..... MANUAL
11. Master Arm Sw ..... ON
12. Trigger ..... SQUEEZE FOR LOCK-ON
13. Bomb Button ..... DEPRESS TO LAUNCH

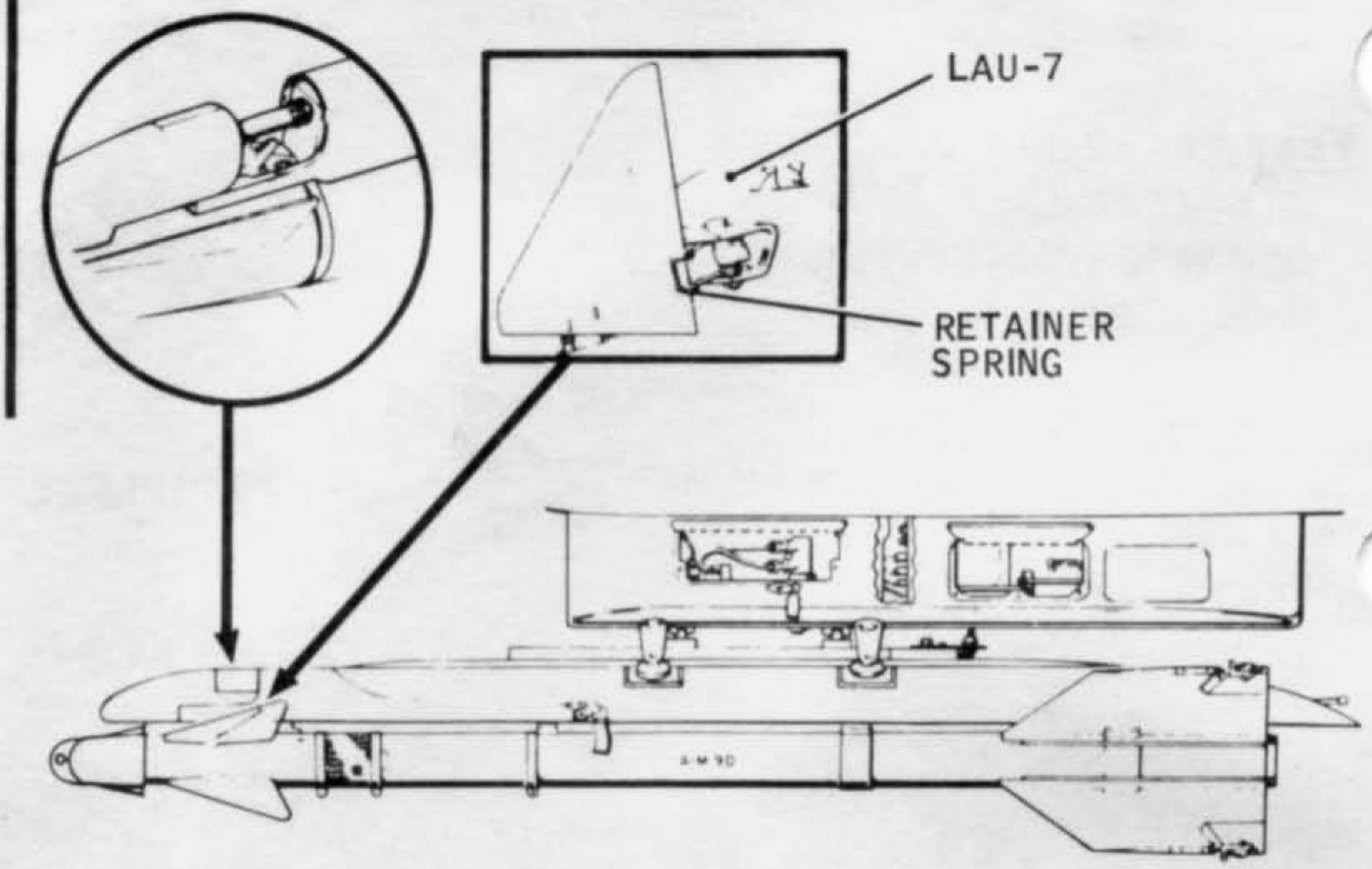
NOTE

If Walleye fails to release, no further launch attempts should be made due to the high probability of a tumbled weapon gyro.

WARNING

When launching WALLEYE, ensure that STATIONS select switches for stations carrying Sidewinder missiles are OFF.

AIM-9D/G/H SIDEWINDER



1. ALL ARMAMENT SWITCHES OFF/SAFE (COCKPIT)
2. MISSILE WINGS SECURE
3. ROLLERONS CAGED AND FREE TO TURN, CAGING PINS IN DETENT POSITION
4. GAS BOTTLE PSI READING IN GREEN OR JUST BELOW IN YELLOW (AIM-9D ONLY)
5. SWAY BRACES ADJUSTED
6. FINS SECURE, MOVE FREELY
7. FIN RETAINER SPRINGS ATTACHED (AIM-9D ONLY)
8. MISSILE SECURE ON LAUNCHER
9. MISSILE JOINTS SECURE
10. UMBILICAL CONNECTED TO LAUNCHER
11. UMBILICAL BLOCK IN LAUNCHER HOOK
12. DOME AND FUZE COVERS INSTALLED

DD1TB-14-B

SIDEWINDER

PREFLIGHT

AERO 20 SERIES RACK

1. Safety Pin ..... INSTALLED
2. Firing Plug ..... MISSILE

AERO 3A Missile Launcher

1. Launcher Detent Safety Pin ..... IN

WARNING

Do not rotate safety pin. Inadvertent missile unlocking may result.

LAU-7A Series Missile Launchers

1. Detent Holddown Pin ..... IN

SIDEWINDER MISSILE PREFLIGHT

POSTSTART CHECK

1. Master Arm Sw ..... OFF
2. IR Cool Sw ..... ON (AIM-9D ONLY)
3. Sta Sel Sw ..... READY
4. Func Sel Sw ..... BOMBS & GM ARM
5. Sidewinder Vol Sw ..... ADJUST

INFLIGHT CHECKS

1. Master Arm Sw ..... OFF
2. Gunsight ..... ON, 0 MILS
3. Func Sel Sw ..... BOMBS & GM ARM
4. Sta Sel Sw ..... READY
5. IR Cool Sw ..... ON (AIM-9D/G ONLY)

WARNING

Ensure Master Armament Switch is OFF before checking missile boresight.

6. Boresight Check ..... COMPLETE – NOTED

SIDEWINDER — CONTINUED

FIRING

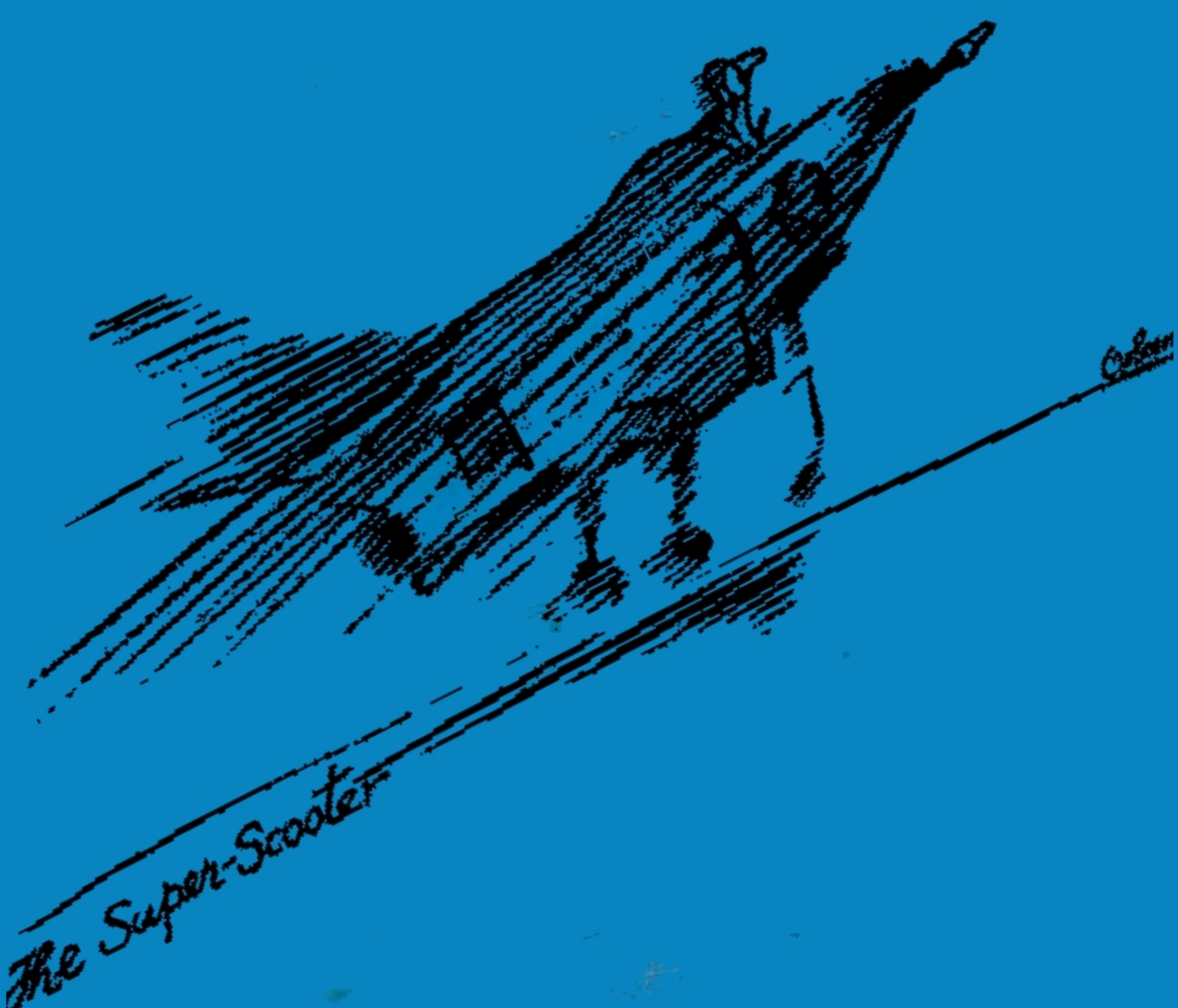
1. Gunsight Reticle Brightness ..... AS DESIRED
2. Gunsight ..... DEPRESSION AS DETERMINED BY BORESIGHT
3. IR Cool Sw ..... ON (AIM-9D) 60 SEC PRIOR TO FIRING
4. Func Sel Sw ..... BOMBS & GM ARM
5. Sta Sel Sw ..... READY
6. Master Arm Sw ..... ON
7. Trigger/Bomb Button ..... DEPRESS

WARNING

If trigger is used, ensure that STATIONS select switches for WALLEYE are OFF. If Bomb Button is used, ensure that STATIONS select switches for bombs are OFF.

NOTE

AIM-9G and H models of SIDEWINDER are advanced versions of AIM-9D incorporating SEAM (SIDEWINDER Expanded Acquisition Mode) that allows SEAM equipped aircraft to fire off boresight. For aircraft not SEAM modified, procedures for missiles are identical to AIM-9D.

Back Inside Cover
A-4 / TA-4 Tactical Pocket Guide

Back Cover
A-4 / TA-4
Tactical
Pocket Guide